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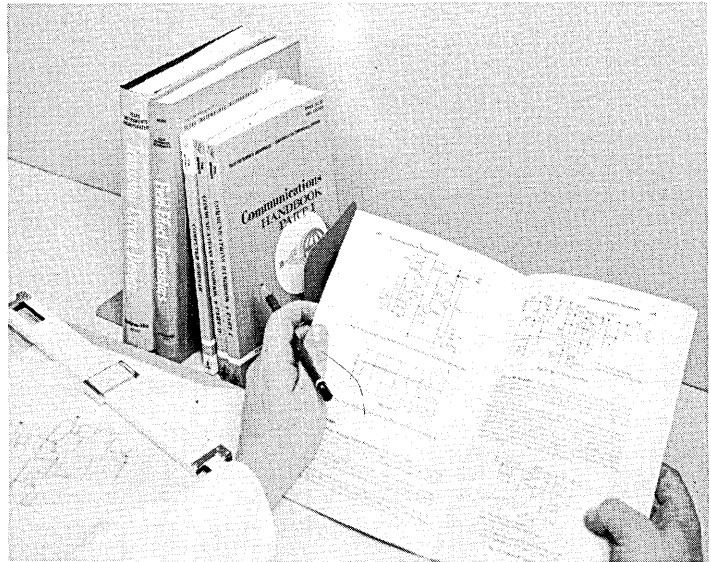
MAY-JUNE 1966

Texas Instruments Semiconductor Products

Exact Factory Price List - QUANTITIES 1 TO 999



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TI Microlibrary

...a solid-state reference library at your fingertips

○ Communications Handbook, Parts I and II

Publ Feb. '65; 366 pages total; 417 illustrations; 6"x9" paperback; \$3.50 per two-volume set.

Eleven TI communications specialists have contributed to this extensive coverage of both theoretical and practical aspects of communications circuit design.

○ Computer Seminar

Publ Nov. '64; 127 pages; 106 illustrations; 6"x9" paperback; \$2.00.

Presents complete text and illustrations used in TI's widely attended Computer Seminars held throughout the U.S. in late 1964.

○ Field-effect Transistors: L. J. Sevin

Publ Mar. '65; 130 pages; 140 illustrations; 7 1/4"x9 7/8" clothbound; about \$10.00.

The first definitive work devoted exclusively to the theory, behavior, and applications, of field-effect transistors.

○ Transistor Circuit Design

Publ Jan. '63; 523 pages; 526 illustrations; 7 1/4"x9 7/8" clothbound; \$15.00.

A best-seller, with 50,000 copies in print. Thirty-eight TI authors cover the entire spectrum of solid-state circuit design from voltage regulators to VHF power amplifiers.

REFERENCE SYMBOLS

- ♦ Change since previous price schedule.
 - ♣ New device since previous price schedule.
 - ▲ Increase price change since previous price schedule.
 - ▼ Decrease price change since previous price schedule.
 - § For replacement only
 - ★ Available from manufacturer only
 - † These units are not of current manufacture. When existing stocks are exhausted they will no longer be available.
 - ‡ If a specific beta range is desired, contact the local TI sales office for price and delivery information.
 - R- Suffix indicates reverse polarity. All R stud rectifiers same price as standard devices.
 - A- Suffix indicates ± 5% tolerance zener devices.
 - C- Suffix indicates double anode clipper.
- Note 1: Initials indicate product material and type
 Material — S = silicon, G = germanium
 Type — A = alloy, C = consumer, D = diode, G = grown, LS = light sensor, M = mesa or planar, P = power, R = rectifier, REG = regulator, S = special product, SCR = silicon controlled rectifier, Z = zener.
- Example — SG = silicon grown transistor
 GA = germanium alloy transistor

SEMICONDUCTOR INTEGRATED CIRCUITS

All Integrated Circuits are in standard 1/4" x 1/8" x 1/32" flat package (TO-84 or TO-89) unless otherwise noted.

INTEGRATED CIRCUITS ORDERING INSTRUCTIONS

Integrated circuits may be ordered with Mech-Pak carrier, formed leads, insulators, or any combination thereof. Simply select the appropriate ordering suffix from the table below and place it after the standard part number.

Example: To order SN510A with Mech-Pak carrier, formed leads and insulator, it would be ordered as SN510A-5.

Lead length	Standard (No Mech-Pak Carrier)				Mech-Pak Carrier				Plug-in Package
	0.185 inch	Not Applicable							
Formed leads	No	No	Yes	Yes	No	No	Yes	Yes	(Series 70, 7374, 15830)
Insulators	No	Yes	No	Yes	No	Yes	No	Yes	54 930 only)
Ordering Suffix	None (Standard)	-6	-7	-1	-2	-3	-4	-5	P

Integrated-circuit Accessories

Type No.	Circuit Functions	1-24	25 Up
SN005E	Test board—large, single-ended etched card with spring fingers for TO-84 and TO-89 flat packs.	\$7.50	
SN006A	Test board—large, single-ended etched card with socket blocks to accommodate TO-84 and TO-89 flat packs in Mech-Pak carrier.	6.50	6.00
SN008	Test socket—compact and designed to accommodate TO-84 and TO-89 flat packs in Mech-Pak carrier.	4.00	3.00
SN021	TO-84 (14-lead) dummy flat pack. (Minimum quantity of 50)	.30	
SN022	TO-89 (10-lead) dummy flat pack. (Minimum quantity of 50)	.30	
SN023	TO-84 (14-lead) dummy flat pack in Mech-Pak carrier.	.30	

Series 51 Low-power Digital—RCTL

(−55° to +125°C)

Pricing of Series 51 is calculated on the basis of the total number of Series 51 circuits ordered, regardless of mix.

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN510A	R-S Flip-flop/Counter	\$28.25	\$22.50	\$19.20
SN5101	R-S Flip-flop with Dual Preset	28.25	22.50	19.20
SN511A	R-S Flip-flop/Counter with Emitter-follower Outputs	31.10	24.75	21.10
SN5111	R-S Flip-flop with Emitter-follower Outputs and Dual Preset	31.10	24.75	21.10
SN5112	Ripple-counter Flip-flop (Vcc = 3 to 6V)	31.10	24.75	21.10
SN5113	Ripple-counter Flip-flop (Vcc = 4 to 6V)	28.25	22.50	19.20
SN512A	6-input NAND/NOR Gate	22.30	17.75	15.15
SN513A	6-input NAND/NOR Gate with Emitter-follower Output	24.55	19.55	16.65
SN514A	Dual 3-input NAND/NOR Gate	22.30	17.75	15.15
SN515A	EXCLUSIVE-OR Gate	22.30	17.75	15.15
SN516A	Dual 2-Input NAND/NOR Gate and Inverter/Buffer	22.30	17.75	15.15
SN5161	Triple 2-input NAND/NOR Gate	22.30	17.75	15.15
SN5162	Triple 2-input NAND/NOR Gate with Emitter-follower Output	24.55	19.55	16.65
SN517A	Clock Driver	29.50	23.50	20.00
SN518A	"One Shot" Monostable Multivibrator	29.50	23.50	20.00
SN5191	Pulse EXCLUSIVE-OR Gate	29.50	23.50	20.00

Series 51R Low-power Digital—RCTL

(−55° to +125°C)

(Additional tests and processing for severe-environment applications)

Pricing of Series 51R is calculated on the basis of the total number of Series 51R circuits ordered, regardless of mix.

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SNR510	R-S Flip-flop/Counter	} Adder to Standard Series 51 price is \$5.00 per unit at 1-999 quantity level.		
SNR5101	R-S Flip-flop with Dual Preset			
SNR511	R-S Flip-flop/Counter with Emitter-follower Outputs			
SNR5111	R-S Flip-flop with Emitter-follower Outputs and Dual Preset			
SNR5112	Ripple-counter Flip-flop (Vcc = 3 to 6V)			
SNR5113	Ripple-counter Flip-flop (Vcc = 4 to 6V)			
SNR512	6-input NAND/NOR Gate			
SNR513	6-input NAND/NOR Gate with Emitter-follower Output			
SNR514	Dual 3-input NAND/NOR Gate			
SNR515	EXCLUSIVE-OR Gate			
SNR516	Dual 2-input NAND/NOR Gate and Inverter/Buffer			
SNR5161	Triple 2-input NAND/NOR Gate			
SNR5162	Triple 2-input NAND/NOR Gate with Emitter-follower Output			
SNR517	Clock Driver			
SNR518	"One-Shot" Monostable Multivibrator			
SNR5191	Pulse EXCLUSIVE-OR Gate			

Series 53 Digital—Modified DTL

(−55° to +125°C)

Pricing of Series 53 is calculated on the basis of the total number of Series 53 circuits ordered, regardless of mix.

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN530	J-K Flip-flop with Preset	\$17.75	\$14.20	\$12.20
SN5301	J-K Flip-flop with Preset and Clear	18.75	14.85	12.75
SN5302	Dual J-K Flip-flop with Preset	22.75	18.00	15.50
SN5304	Dual J-K Flip-flop with Preset and Clear	22.75	18.00	15.50
SN531	5-input Expandable NAND/NOR Gate	11.35	9.00	7.70
SN5311	Dual 5-input NAND/NOR Gate	13.00	10.25	8.80
SN532	5-input AND/OR Gate or Expander	11.35	9.00	7.70
SN533	Dual 3-input NAND/NOR Gate	11.35	9.00	7.70
SN5331	Triple 3-input NAND/NOR Gate	13.00	10.25	8.80
SN534	Dual AND/OR Gate (2 and 3 inputs)	11.35	9.00	7.70
SN535	Quadruple Inverter/Driver	11.35	9.00	7.70
SN5350	Quadruple 2-input NAND/NOR Gate	13.00	10.25	8.80
SN5370	Dual EXCLUSIVE-OR Gate	16.20	12.90	11.00
SN5380	"One-Shot" Monostable Multivibrator	18.75	14.85	12.75

Series 73 Digital (Industrial)—Modified DTL

(0° to +70°C)

Pricing of Series 73 and Series 73P is calculated on the basis of the total number of Series 73 and Series 73P circuits ordered, regardless of mix. Series 73P circuits are in T's 16-pin plug-in pack.

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN7300	J-K Flip-flop with Preset	\$ 8.10	\$ 6.45	\$ 5.50
SN7301	J-K Flip-flop with Preset and Clear	8.50	6.75	5.75
SN7302	Dual J-K Flip-flop with Preset	10.50	8.35	7.15
SN7304	Dual J-K Flip-flop with Preset and Clear	10.50	8.35	7.15
SN7310	5-input Expandable NAND/NOR Gate	5.65	4.50	3.85
SN7311	Dual 5-input NAND/NOR Gate	6.50	5.15	4.40
SN7320	5-input Expander	5.65	4.50	3.85
SN7330	Dual 3-input NAND/NOR Gate	5.65	4.50	3.85
SN7331	Triple 3-input NAND/NOR Gate	6.50	5.15	4.40
SN7350	Quadruple Inverter/Driver	5.65	4.50	3.85
SN7360	Quadruple 2-input NAND/NOR Gate	6.50	5.15	4.40
SN7370	Dual EXCLUSIVE-OR Gate	7.70	6.15	5.25
SN7380	"One Shot" Monostable Multivibrator	9.75	7.75	6.60

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN7301P	J-K Flip-flop with Preset and Clear	\$ 8.50	\$ 6.75	\$ 5.75
SN7302P	Dual J-K Flip-flop with Preset	11.30	9.00	7.70
SN7304P	Dual J-K Flip-flop with Preset and Clear	11.30	9.00	7.70
SN7311P	Dual 5-input NAND/NOR Gate	7.50	6.00	5.10
SN7331P	Triple 3-input NAND/NOR Gate	7.50	6.00	5.10
SN7350P	Quadruple Inverter/Driver	6.90	5.50	4.70
SN7360P	Quadruple 2-input NAND/NOR Gate	7.50	6.00	5.15
SN7370P	Dual EXCLUSIVE-OR Gate	8.10	6.50	5.50
SN7380P	"One Shot" Monostable Multivibrator	9.75	7.75	6.60

Series 54 High-speed Digital—TTL

(−55° to +125°C)

Pricing of Series 54 is calculated on the basis of the total number of Series 54 circuits ordered, regardless of mix.

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN5400	Quadruple 2-input Positive NAND Gate	\$13.00	\$10.40	\$ 8.80
SN5410	Triple 3-input Positive NAND Gate	13.00	10.40	8.80
SN5420	Dual 4-input Positive NAND Gate	11.40	9.10	7.70
SN5430	8-input Positive NAND Gate	11.40	9.10	7.70
SN5440	Dual 4-input Positive NAND "Power" Gate	13.00	10.40	8.80
SN5450	Dual EXCLUSIVE-OR Gate with Expander Inputs	14.20	11.40	9.60
SN5451	Dual EXCLUSIVE-OR Gate	13.00	10.40	8.80
SN5453	Quad-2 AND/OR Invert	14.20	11.40	9.60
SN5460	Dual 4-input Expander	10.40	8.40	7.70
SN5470	Single-phase J-K Flip-flop	17.80	14.40	12.00
SN5472	Single Master/Slave Flip-flop	14.60	11.60	9.90
SN5473	Dual Master/Slave Flip-flop	23.20	18.45	15.75
SN5474	Dual Latch	22.80	18.20	15.40
SN5480	Fuller Adder	28.60	22.90	19.30
SN5491	8-bit Shift Register	62.50	49.75	42.50

Series 54 930 High-speed Digital—TTL

Pricing of Series 54 930 is calculated on the basis of the total number of Series 54 930 circuits ordered, regardless of mix.

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN54 930	Dual 4-input NAND Gate	\$11.40	\$ 9.10	\$ 7.70
SN54 932	Dual 4-input Buffer	13.00	10.40	8.80
SN54 946	Quadruple 2-input NAND Gate	13.00	10.40	8.80
SN54 948	Flip-flop	17.80	14.40	12.00
SN54 962	Triple 3-input NAND Gate	13.00	10.40	8.80
SN54 965	8-input NAND Gate	11.40	9.10	7.70
SN54 966	Dual EXCLUSIVE-OR Gate	13.00	10.40	8.80

Series 74 and Series 74P High-speed Digital—TTL
(0° to +70°C)

Pricing of Series 74 and Series 74P is calculated on the total number of Series 74 and Series 74P circuits ordered, regardless of mix. Series 74 circuits are in the TO-84 14-lead flat pack, and Series 74P circuits are in TI's 16-pin plug-in flat pack. (Add the suffix "P" to the type number to order Series 74P in the plug-in package.)

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN7400	Quadruple 2-input Positive NAND Gate	\$ 6.50	\$ 5.20	\$ 4.40
SN7410	Triple 3-input Positive NAND Gate	6.50	5.20	4.40
SN7420	Dual 4-input Positive NAND Gate	5.70	4.55	3.85
SN7430	8-input Positive NAND Gate	5.70	4.55	3.85
SN7440	Dual 4-input Positive NAND "Power" Gate	6.50	5.20	4.40
SN7450	Dual EXCLUSIVE-OR Gate with Expander Inputs	7.10	5.70	4.80
SN7451	Dual EXCLUSIVE-OR Gate	6.50	5.20	4.40
SN7453	Quad AND/OR Invert	11.50	9.15	7.80
SN7460	Dual 4-input Expander	5.20	4.20	3.50
SN7470	Single-phase J-K Flip-flop	8.90	7.20	6.00
SN7472	Single Master/Slave Flip-flop	7.30	5.80	4.95
SN7473	Dual Master/Slave Flip-flop	11.60	9.20	7.85
SN7474	Dual Latch	11.40	9.10	7.70
SN7480	Full Adder	14.30	11.45	9.60
SN7490N	Decade Counter	23.20	18.50	15.75
SN7491	9-bit Shift Register	31.25	24.85	21.25

Series 74 930 High-speed Digital—TTL
(0° to +70°C)

Pricing of Series 74 930 is calculated on the basis of the total number of Series 74 930 Circuits ordered, regardless of mix.

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN74 930	Dual 4-input NAND Gate	\$ 5.70	\$ 4.55	\$ 3.85
SN74 932	Dual 4-input Buffer	6.50	5.20	4.40
SN74 946	Quadruple 2-input NAND Gate	6.50	5.20	4.40
SN74 948	Flip-flop	8.90	7.20	6.00
SN74 962	Triple 3-input NAND Gate	6.50	5.20	4.40
SN74 965	8-input NAND Gate	5.70	4.55	3.85
SN74 966	Dual EXCLUSIVE-OR Gate	6.50	5.20	4.40

Series 15930 High-speed Digital—DTL
(-55° to +125°C)

Pricing of Series 15930 is calculated on the basis of the total number of Series 15930 circuits ordered, regardless of mix.

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN15933	Dual 4-input Expander	\$ 7.15	\$ 5.70	\$ 4.85
SN15930	Dual 4-input Expandable NAND Gate	15.40	12.25	10.45
SN15932	Dual 4-input Expandable Buffer	17.65	14.05	12.00
SN15946	Quadruple 2-input NAND Gate	17.00	13.55	11.55
SN15944	Dual 4-input Expandable NAND "Power" Gate	17.65	14.05	12.00
SN15962	Triple 3-input NAND/NOR Gate	17.00	13.55	11.55
SN15931	J-K/R-S Flip-flop	20.40	16.25	13.85
SN15945	High-performance J-K/R-S Flip-flop	20.40	16.25	13.85
SN15948	Fast-rise-time J-K/R-S Flip-flop	20.40	16.25	13.85
SN15950	A-C Flip-flop	20.40	16.15	13.85
SN15951	"One-Shot" Monostable Multivibrator	34.00	27.10	23.10

Series 15830 and Series 15830P High-speed Digital—DTL
(0° to +70°C)

Pricing of Series 15830 and Series 15830P is calculated on the total number of Series 15830 and Series 15830P circuits ordered, regardless of mix. Series 15830 circuits are in the TO-84 14-lead flat pack, and Series 15830P networks are in TI's 16-pin plug-in flat pack. (Add the suffix "P" to the type number to order Series 15830P in the plug-in package.)

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN15833	Dual 4-input Expander	\$ 5.00	\$ 4.00	\$ 3.40
SN15830	Dual 4-input Expandable NAND Gate	7.20	5.75	4.90
SN15832	Dual 4-input Expandable Buffer	8.35	6.65	5.65
SN15846	Quadruple 2-input NAND Gate	8.20	6.50	5.55
SN15844	Dual 4-input Expandable NAND "Power" Gate	8.35	6.65	5.65
SN15862	Triple 3-input Gate	8.20	6.50	5.55
SN15831	J-K/R-S Flip-flop	11.50	9.15	7.80
SN15845	High-performance J-K/R-S Flip-flop	11.50	9.15	7.80
SN15848	Fast-rise-time J-K/R-S Flip-flop	11.50	9.15	7.80
SN15851	"One-Shot" Monostable Multivibrator	14.75	11.75	10.00

Series 1700 Low-power Digital—RTL
(-55° to +125°C)

Pricing of series 1700 is calculated on the basis of the total number of series 1700 circuits ordered, regardless of mix. "A" suffix indicates flat pack; type number without alphabetic suffix indicates modified TO-5 package.

Type No.	Circuit Functions	1-24	Unit Price 25-249	250-999
SN1729/SN1729A	Adder	\$ 7.35	\$ 6.35	\$ 5.40
SN1730/SN1730A	Buffer	7.00	6.05	5.10
SN1731/SN1731A	Dual 2-input Gate	6.00	5.20	4.40
SN1732/SN1732A	Dual 2-input Expander Gate	5.25	4.55	3.85
SN1733/SN1733A	4-input Gate	6.00	5.20	4.40
SN1734/SN1734A	Half-adder	7.00	6.05	5.10
SN1735/SN1735A	Register	8.20	7.10	6.00
SN1761/SN1761A		5.40	4.70	3.95
SN1762/SN1762A		4.95	4.30	3.75
SN1763/SN1763A		4.40	3.85	3.35
SN1764/SN1764A		3.80	3.65	2.80
SN1765/SN1765A		4.40	3.85	3.35
SN1766/SN1766A		4.95	4.30	3.75
SN1767/SN1767A		6.00	5.20	4.40

Series 70 High-speed Unsaturated Digital—ECL
(0° to +70°C)

Type No.	Circuit Functions	1-24	Unit Price 25-249	250-999
SN7000	Dual OR/NOR Gate (4 Load Resistors)	\$6.00	\$4.80	\$4.10
SN7001	Dual OR/NOR Gate (2 Load Resistors)	6.00	4.80	4.10

Minutemen Series
(0° to +65°C)

Type No.	Circuit Functions	1-24	Unit Price 25-249	250-999
Logic—DTL				
SN337A	Flip-flop		\$70.00	\$55.00
SN341A	7-input NAND/NOR Gate, Clocked		28.00	22.00
SN343A	Dual Input Network		58.00	44.00
SN344A	Triple High-level Inverter		58.00	47.00
SN346A	Dual Output Driver		53.50	42.60
SN347A	Dual 4-input Low-level NAND/NOR Gate, Clocked	36.00	28.00	24.00
SN359A	Dual 4-input Low-level NAND/NOR Gate, Unclocked	35.00	27.00	23.00

Memory

SN340A	Low-level Switch	53.50	42.50	36.25
SN342A	Read Pre-amplifier	84.00	67.00	57.25
SN348A	Matrix Switch	69.00	54.75	46.75

Linear

SN350A	General-purpose Amplifier	122.00	96.75	82.50
SN352A	General-purpose Amplifier	122.00	96.75	82.50
SN354A	Demodulator Chopper	145.00	116.00	99.00
SN355A	Driver Switch	71.00	56.75	48.50

Series 52 Differential/Operational Amplifiers
(-55° to +125°C)

Pricing of Series 52 is calculated on the basis of the total number of Series 52 circuits ordered regardless of mix.

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN521A	Operational Amplifier	\$40.50	\$32.25	\$27.50
SN522A	Operational Amplifier with Emitter-follower Output	40.50	32.25	27.50
SN523A	General-purpose Differential Amplifier	38.95	31.00	26.40
SN524A	General-purpose Operational Amplifier	29.25	23.25	19.80
SN524AL	General-purpose Operational Amplifier	29.95	23.25	19.80
SN525	High-performance Differential Amplifier	57.00	45.00	38.50
SN526	High-performance Operational Amplifier	57.00	45.00	38.50

Series 72 Differential/Operational Amplifiers
(0° to +70°C)

Pricing of Series 72 is calculated on the basis of the total number of Series 72 circuits ordered regardless of mix. Also available in modified TO-5 package. Add suffix numeral "1" to type number for this package.

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN723	General-purpose Differential Amplifier	\$27.60	\$22.00	\$18.75
SN724	General-purpose Operational Amplifier	16.20	12.90	11.00

Series 55 High-frequency Amplifiers
(-55° to +125°C)

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN5500	Magnetic-core Sense Amplifier	\$56.00	\$44.50	\$38.00
SN5510	Video Differential Amplifier	13.80	10.95	9.30
SN5510L	Wide Band Video Amplifier	13.80	10.95	9.35

Series 75 High-frequency Amplifiers
(0° to +70°C)

Type No.	Circuit Functions	1-24	Unit Price 25-99	100-999
SN7500	Magnetic-core Sense Amplifier	\$24.40	\$19.35	\$16.50
SN7501	Magnetic-core Sense Amplifier with Flip-flop Output	37.00	29.75	24.25
SN7502	Magnetic-core Sense Amplifier with Flip-flop Output	37.00	29.75	24.25

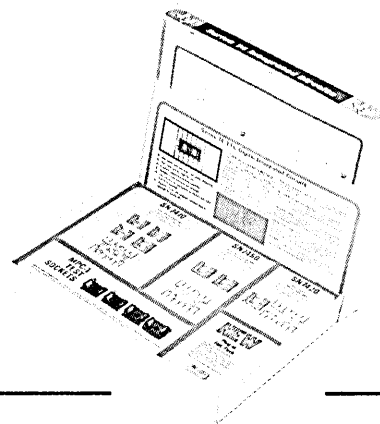
Special Amplifiers

Type No.	Circuit Functions	1-24	Unit Price 25-249	250-999
SN777*	Low-level Audio Amplifier	\$25.00	\$20.00	\$17.00
SN1220*	Class B Audio Amplifier	16.20	12.90	11.00
SNX1303*	Thermal-feedback Video Amplifier	98.00	78.00	66.50
SNX1304*	Optoelectronic Pulse Amplifier	150.00	110.00	95.00

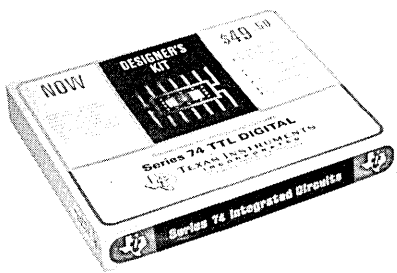
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SERIES 74 TTL (DIGITAL)

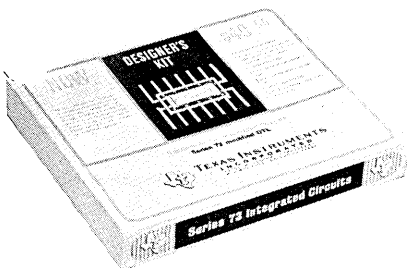


Integrated Circuits	Value
One SN7420 Dual 4-input positive NAND gate . . .	\$ 5.70
Two SN7450 Dual EXCLUSIVE — OR gates with expander inputs	14.20
Four SN7470 Single-phase J-K flip-flops	35.60
Breadboarding Sockets	
Four MPC-1 14-pin Mech-Pak Sockets	\$16.00
Total Value	\$71.50
Suggested Kit Price	\$49.50

Sample Applications

- 4-bit Binary to Gray-code Converter
- 4-bit Binary Comparator
- Divide-by-5 Counter
- Binary Coded Decimal Counter

SERIES 73 MODIFIED DTL (DIGITAL)



Integrated Circuits	Value
Three SN7331 Triple 3-input NAND/NOR gates . . .	\$19.50
Two SN7302 Dual J-K flip-flops with preset . . .	21.00
One SN7360 Quadruple 2-input NAND/NOR gate . .	6.50
One SN7370 Dual EXCLUSIVE-OR gate	7.70
One SN7380 "one-shot" monostable multivibrator . .	9.75
Breadboarding Sockets	
Six MPC-1 14-pin Mech-Pak Sockets	24.00
Total Value	\$88.45
Suggested Kit Price	\$49.50

Sample Applications

- Full Adder
- One shot Clock Inhibit
- Up-down Binary Counter

SERIES 72 AMPLIFIERS



Integrated Circuits	Value
One SN723 General purpose differential amplifier . .	\$27.60
Three SN724 General purpose operational amplifiers .	48.60
Breadboarding Sockets	
Two MPC-1 14-pin Mech-Pak sockets	8.00
Total Value	\$84.20
Suggested Kit Price	\$49.50

Sample Applications

- Variable gain a-c amplifier
- Stable gain circuits
- Isolation amplifiers (buffer)

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1N251 - 1N1100

Device No.	Type (Note 1)	1-99	100-999
1N251	SD	.65	.43
JAN 1N251 (MIL-S-19500/188A)	SD	.72	.48
1N253	SR	1.05	.70
JAN 1N253 (MIL-S-19500/194A)	SR	1.25	.83
1N254	SR	1.12	.75
JAN 1N254 (MIL-S-19500/194A)	SR	1.34	.89
1N255	SR	1.72	1.15
JAN 1N255 (MIL-S-19500/194A)	SR	2.06	1.37
1N256	SR	2.40	1.60
JAN 1N256 (MIL-S-19500/194A)	SR	2.64	1.76
1N332	SR	1.72	1.15
1N333	SR	1.72	1.15
1N334	SR	1.42	.95
1N335	SR	1.42	.95
1N336	SR	1.12	.75
1N337	SR	1.12	.75
1N338	SR	1.05	.70
1N339	SR	1.05	.70
1N340	SR	1.05	.70
1N341	SR	1.72	1.15
1N342	SR	1.72	1.15
1N343	SR	1.42	.95
1N344	SR	1.42	.95
1N345	SR	1.12	.75
1N346	SR	1.12	.75
1N347	SR	1.05	.70
1N348	SR	1.05	.70
1N349	SR	1.05	.70
1N440B	SR	.66	.44
1N441B	SR	.69	.46
1N442B	SR	.79	.53
1N443B	SR	.97	.65
1N444B	SR	1.05	.70
1N445B	SR	1.42	.95
1N456	SD	.37	.29
1N456A	SD	.37	.29
1N457	SD	.45	.36
JAN 1N457 (MIL-S-19500/193A)	SD	.45	.36
1N457A	SD	.45	.36
1N458	SD	.51	.40
JAN 1N458 (MIL-S-19500/193A)	SD	.51	.40
1N458A	SD	.51	.40
1N459	SD	.66	.51
JAN 1N459 (MIL-S-19500/193A)	SD	.66	.51
1N459A	SD	.66	.51
1N461	SD	.35	.28
1N461A	SD	.35	.28
1N462	SD	.38	.30
1N463	SD	.46	.36
1N464	SD	.45	.35
1N482	SD	.59	.46
1N482A	SD	.59	.46
1N482B	SD	.59	.46
1N483	SD	.61	.47
1N483A	SD	.61	.47
1N483B	SD	.61	.47
1N484	SD	.71	.55S
1N484A	SD	.71	.55S
1N484B	SD	.71	.55S
1N485	SD	.85	.60
1N485A	SD	.85	.60
1N485B	SD	.85	.60
1N486	SD	1.25	.98
1N486A	SD	1.25	.98
1N486B	SD	1.25	.98
1N487	SD	2.05	1.60
1N487A	SD	2.85	2.15
1N488	SD	2.50	1.95
1N488A	SD	3.29	2.51
1N530	SR	.49	.33
1N531	SR	.52	.35
1N532	SR	.60	.40
1N533	SR	.67	.45
1N534	SR	.76	.51
1N535	SR	.96	.64
1N536	SR	.45	.30
1N537	SR	.49	.33
1N538	SR	.52	.35
1N539	SR	.60	.40
1N540	SR	.67	.45
1N547	SR	.96	.64
1N550	SR	1.05	.70
1N551	SR	1.12	.75
1N552	SR	1.42	.95
1N553	SR	1.72	1.15
1N554	SR	1.80	1.20
1N555	SR	2.40	1.60
1N560	SR	1.50	1.00
1N561	SR	2.70	1.80
1N588	SR	6.30	4.25

Device No.	Type (Note 1)	1-99	100-999
1N589	SR	6.30	4.25
1N599	SR	.47	.31
1N599A	SR	.54	.36
1N600	SR	.49	.33
1N600A	SR	.63	.42
1N601	SR	.52	.35
1N601A	SR	.65	.43
1N602	SR	.52	.35
1N602A	SR	.66	.44
1N603	SR	.60	.40
1N603A	SR	.66	.44
1N604	SR	.67	.45
1N604A	SR	.79	.53
1N605	SR	.76	.51
1N605A	SR	1.43	.95
1N606	SR	.96	.64
1N606A	SR	2.02	1.35
1N607	SR	1.00	.67
1N607A	SR	1.00	.67
1N608	SR	1.05	.70
1N608A	SR	1.05	.70
1N609	SR	1.05	.70
1N609A	SR	1.05	.70
1N610	SR	1.12	.75
1N610A	SR	1.12	.75
1N611	SR	1.42	.95
1N611A	SR	1.42	.95
1N612	SR	1.72	1.15
1N612A	SR	1.72	1.15
1N613	SR	1.80	1.20
1N613A	SR	1.80	1.20
1N614	SR	2.40	1.60
1N614A	SR	2.40	1.60
1N619	SD	1.27	1.04
1N619A	SD	1.27	1.04
1N622	SD	1.42	1.11
1N625	SD	.43	.29
1N626	SD	.43	.30
1N627	SD	.72	.47
1N628	SD	.72	.47
1N629	SD	.86	.55
1N643	SD	1.33	1.00
JAN 1N643 (MIL-S-19500/256B)	SD	1.50	1.04
1N645	SD	1.40	.85
1N645A	SD	1.65	1.10
AF 1N645 (MIL-E-1/1143)	SD	1.55	.98
JAN 1N645 (MIL-S-19500/240A)	SD	1.55	1.00
1N646	SD	1.65	1.10
AF 1N646 (MIL-E-1/1143)	SD	1.85	1.25
1N647	SD	1.80	1.20
AF 1N647 (MIL-E-1/1143)	SD	2.05	1.35
1N648	SD	1.95	1.30
AF 1N648 (MIL-E-1/1143)	SD	2.15	1.45
1N649	SD	2.50	1.65
AF 1N649 (MIL-E-1/1143)	SD	3.00	2.43
1N658	SD	1.75	1.20
1N659	SD	.58	.39
1N660	SD	.69	.46
1N661	SD	1.75	1.30
1N662	SD	.66	.44
JAN 1N662 (MIL-S-19500/256B)	SD	.90	.60
1N663	SD	1.20	.80
JAN 1N663 (MIL-S-19500/256B)	SD	1.22	.83
1N702-1N707	SZ	2.10	1.60
1N702A-1N707A	SZ	2.80	2.10
1N709-1N716	SZ	2.10	1.60
1N709A-1N716A	SZ	2.80	2.10
1N717-1N726	SZ	2.35	1.75
1N717A-1N726A	SZ	2.95	2.20
1N746-1N759	SZ	1.50	1.10
1N746A-1N759A	SZ	2.05	1.51
JAN 1N746A-59A (MIL-S-19500/127D)	SZ	2.15	1.65
1N761-1N766	SZ	1.90	1.40
1N767-1N769	SZ	2.10	1.60
1N914	SD	.45	.30
JAN 1N914 (MIL-S-19500/116B)	SD	.45	.30
1N914A	SD	.50	.33
1N914B	SD	1.35	.90
1N915	SD	.95	.60
1N916	SD	.67	.44
1N916A	SD	.75	.50
1N916B	SD	.92	.61
1N917	SD	2.05	1.37
1N957-1N973	SZ	1.50	1.00
1N957A-1N973A	SZ	1.60	1.10
1N957B-1N973B	SZ	1.70	1.20
JAN 1N962B-73B (MIL-S-19500/117C)	SZ	1.70	1.20
1N1095	SR	.76	.51
1N1096	SR	.97	.64
1N1100	SR	.49	.33

Device No.	Type (Note 1)	1-99	100-999
1N1101	SR	.63	.42
1N1102	SR	.60	.40
1N1103	SR	.67	.45
1N1104	SR	.76	.51
1N1105	SR	.97	.64
1N1115	SR	1.05	.70
1N1116	SR	1.12	.75
1N1117	SR	1.42	.95
1N1118	SR	1.72	1.15
1N1119	SR	1.80	1.20
1N1120	SR	2.40	1.60
1N1124, 1N1124A, 1N1124R	SR	2.10	1.40
USN 1N1124AM (MIL-S-19500/104B)	SR	3.37	2.25
1N1125, 1N1125A, 1N1125R	SR	2.55	1.70
1N1126, 1N1126A, 1N1126R	SR	3.90	2.60
USN 1N1126AM (MIL-S-19500/104B)	SR	5.25	3.50
1N1127, 1N1127A, 1N1127R	SR	5.25	3.50
1N1128, 1N1128A, 1N1128R	SR	6.00	4.00
USN 1N1128AM (MIL-S-19500/104B)	SR	7.50	5.00
▼ 1N1130, 1N1131	SR	5.70	3.80
JAN 1N1130 (MIL-S-19500/259A)	SR	7.03	4.69
JAN 1N1131 (MIL-S-19500/259A)	SR	7.03	4.69
▼▼▼ 1N1199A	SR	1.25	.83
▼▼▼ 1N1200A	SR	1.40	.94
▼▼▼ 1N1201A	SR	1.80	1.21
▼▼▼▼ 1N1202A	SR	2.72	1.82
▼▼▼▼ 1N1203A	SR	4.00	2.75
▼▼▼▼ 1N1204A	SR	5.00	3.30
▼▼▼▼ 1N1205A	SR	5.75	3.38
▼▼▼▼ 1N1206A	SR	6.90	4.50
1N1487	SR	.49	.33
1N1488	SR	.52	.35
1N1489	SR	.60	.40
1N1490	SR	.67	.45
1N1491	SR	.76	.51
1N1492	SR	.97	.64
1N1581	SR	1.10	.72
1N1582	SR	1.20	.80
1N1583	SR	2.25	1.50
1N1584	SR	3.30	2.20
1N1585	SR	4.05	2.70
1N1586	SR	4.65	3.10
1N1587	SR	5.25	3.50
1N1612	SR	1.10	.72
1N1613	SR	1.20	.80
1N1614	SR	1.90	1.27
1N1615	SR	4.05	2.70
1N1616	SR	5.77	3.85
1N1692	SR	.49	.33
1N1693	SR	.52	.35
1N1694	SR	.60	.40
1N1695	SR	.67	.45
1N1696	SR	.76	.51
1N1697	SR	.97	.64

Device No.	Type (Note 1)	1-24	25-99	100-999
1N1816-1N1836	REG	5.60	5.10	4.50
1N1816R-1N1836R	REG	5.60	5.10	4.50
1N1816A-1N1836A	REG	7.05	6.50	5.65
USN 1N1816A-36A (MIL-E-1/1259)	REG	8.60	8.05	6.70
1N1816RA-1N1836RA	REG	7.50	6.50	5.65
USN 1N1816RA-36RA (MIL-E-1/1259)	REG	8.60	8.05	6.70
1N1816C-1N1836C	REG	7.05	6.50	5.65
1N1816CA-1N1836CA	REG	7.60	7.00	6.10
1N2008-1N2012	REG	5.60	5.10	4.50
1N2008R-1N2012R	REG	5.60	5.10	4.50
1N2008A-1N2012A	REG	7.05	6.50	5.65
1N2008RA-1N2012RA	REG	7.05	6.50	5.65
1N2008C-1N2012C	REG	7.05	6.50	5.65
1N2008CA-1N2012CA	REG	7.60	7.00	6.10

Device No.	Type (Note 1)	1-99	100-999
1N2069	SR	.49	.33
▲ 1N2070	SR	.67	.49
1N2071	SR	.87	.58
1N2117	SR	4.50	3.95

Device No.	Type (Note 1)	1-99	100-999
1N2175	LS	11.50	8.00

Device No.	Type (Note 1)	1-24	25-99	100-999
1N2498-1N2500	REG	5.60	5.10	4.50
1N2498A-1N2500A	REG	7.05	6.50	5.65
1N2498C-1N2500C	REG	7.05	6.50	5.65
1N2498CA-1N2500CA	REG	7.60	7.00	6.10
1N2498R-1N2500R	REG	5.60	5.10	4.50
1N2498RA-1N2500RA	REG	7.05	6.50	5.65

Device No.	1-9	10-29	30-29	100-999
1N2878, 1N2879	7.00	5.85	5.30	4.75
1N2880, 1N2881	7.70	6.45	5.85	5.25
1N2882, 1N2883	9.05	7.55	6.85	6.15
1N2884, 1N2885	10.05	8.40	7.60	6.85
1N2886, 1N2887	10.05	8.40	7.60	6.85
1N2888, 1N2889	11.85	9.90	8.95	8.05
1N2890, 1N2891	11.85	9.90	8.95	8.05
1N2892, 1N2893	13.00	10.90	9.80	8.85
1N2894, 1N2895	14.55	12.20	11.00	9.90
1N2896, 1N2897	14.55	12.20	11.00	9.90
1N2898, 1N2899	16.35	13.70	12.35	11.15
1N2900, 1N2901	16.35	13.70	12.35	11.15
1N2902, 1N2903	18.75	15.70	14.15	12.75
1N2904, 1N2905	18.75	15.70	14.15	12.75
1N2906, 1N2907	18.75	15.70	14.15	12.75
1N2908, 1N2909	20.95	17.55	15.85	14.25
1N2910, 1N2911	20.95	17.55	15.85	14.25
1N2912, 1N2913	23.30	19.50	17.60	15.85
1N2914, 1N2915	23.30	19.50	17.60	15.85
1N2916, 1N2917	23.30	19.50	17.60	15.85
1N2918, 1N2919	25.00	20.90	18.90	17.00
1N2920, 1N2921	27.75	23.20	20.95	18.85
1N2922, 1N2923	29.45	24.65	22.25	20.05
1N2924, 1N2925	31.85	26.65	24.05	21.70

Device No.	Type (Note 1)	1-24	25-99	100-999
JAN 1N2970B-77B (MIL-S-19500/124C)	REG	7.85	7.40	5.85
JAN 1N2970RB-77RB (MIL-S-19500/124C)	REG	7.85	7.40	5.85
JAN 1N2979B-80B (MIL-S-19500/124C)	REG	7.85	7.40	5.85
JAN 1N2979RB-80RB (MIL-S-19500/124C)	REG	7.85	7.40	5.85
JAN 1N2982B (MIL-S-19500/124C)	REG	7.85	7.40	5.85
JAN 1N2982RB (MIL-S-19500/124C)	REG	7.85	7.40	5.85
JAN 1N2984B-86B (MIL-S-19500/124C)	REG	7.85	7.40	5.85
JAN 1N2984RB-86RB (MIL-S-19500/124C)	REG	7.85	7.40	5.85
JAN 1N2988B-90B (MIL-S-19500/124C)	REG	7.85	7.40	5.85
JAN 1N2988RB-90RB (MIL-S-19500/124C)	REG	7.85	7.40	5.85
1N2970A-1N3011A	REG	5.50	5.10	4.40
1N2970B-1N3011B	REG	6.90	6.30	5.50
1N3012-1N3015	REG	5.60	5.20	4.50

1N3012A - 2N396

Device No.	Type (Note 1)	1-24	25-99	100-999
1N3012A-1N3015A	REG	8.45	7.75	6.75
1N3012B-1N3015B	REG	13.00	11.95	10.35
1N3016-1N3044	REG	2.70	2.45	2.15
1N3016A-1N3044A	REG	3.00	2.75	2.40
1N3016B-1N3044B	REG	3.55	3.20	2.80
USN 1N3016B-43B (MIL-S-19500/115D)	REG	3.75	3.45	3.00
1N3045-1N3051	REG	2.75	2.55	2.20
1N3045A-1N3051A	REG	3.05	2.80	2.45
1N3045B-1N3051B	REG	4.35	4.05	3.50

Device No.	Type (Note 1)	1-99	100-999
1N3064	SD	.67	.44
JAN 1N3064 (MIL-S-19500/144C)	SD	.67	.44
1N3070	SD	5.25	3.50
JAN 1N3070 (MIL-S-19500/169C)	SD	5.30	3.54

Device No.	1-9	10-29	30-99	100-999
1N3183	7.80	6.50	5.90	5.30
1N3184	8.90	7.45	6.70	6.05
1N3185	17.35	14.50	13.10	11.80
1N3186	20.00	16.70	15.10	13.60
1N3187	28.10	23.50	21.20	19.10
1N3188	35.70	29.90	27.00	24.30

Device No.	Type (Note 1)	1-99	100-999
1N3506-1N3513	SZ	2.80	2.10
1N3515-1N3520	SZ	2.80	2.10
1N3521-1N3530	SZ	2.95	2.20
1N3649	SR	2.88	1.92
1N3650	SR	3.60	2.40
1N3775	SR	5.85	3.90

Device No.	Type (Note 1)	1-24	25-99	100-999
1N3874, 1N3874R	SR	12.75	9.78	8.50
1N3875, 1N3875R	SR	16.12	11.59	10.75
1N3876, 1N3876R	SR	20.25	15.52	13.50
1N3877, 1N3877R	SR	23.50	18.02	15.67
1N3878, 1N3878R	SR	26.50	20.32	17.67
1N3879, 1N3879R	SR	11.25	8.67	7.50
1N3880, 1N3880R	SR	14.60	11.20	9.75
1N3881, 1N3881R	SR	18.75	14.40	12.50
1N3882, 1N3882R	SR	22.00	16.50	14.67
1N3883, 1N3883R	SR	25.00	19.00	16.67
1N3884, 1N3884R	SR	16.50	13.25	11.25
1N3885, 1N3885R	SR	19.50	15.25	13.25
1N3886, 1N3886R	SR	23.00	17.50	15.75
1N3887, 1N3887R	SR	26.00	20.25	17.75
1N3888, 1N3888R	SR	28.00	22.75	19.00
1N3889, 1N3889R	SR	15.50	12.25	10.25
1N3890, 1N3890R	SR	18.50	14.25	12.25
1N3891, 1N3891R	SR	22.00	16.50	14.75
1N3892, 1N3892R	SR	25.00	19.25	16.75
1N3893, 1N3893R	SR	27.00	21.15	18.00

Device No.	Type (Note 1)	1-99	100-999
1N3909	SR	30.00	22.60
1N3910	SR	41.50	31.20
1N3911	SR	51.00	38.20
1N3912	SR	57.00	44.10
1N3913	SR	64.00	48.00

Device No.	Type (Note 1)	1-99	100-999
1N4001	SR	.45	.30
1N4002	SR	.49	.33
1N4003	SR	.60	.40
1N4004	SR	.67	.45
1N4005	SR	.96	.54
1N4006	SR	2.25	1.70
1N4007	SR	5.10	3.40
1N4099-1N4106	SZ	5.05	3.80
1N4360	SZ	2.80	2.10
1N4364	SR	.45	.30
1N4365	SR	.48	.32
1N4366	SR	.56	.37
1N4367	SR	.66	.44
1N4368	SR	.72	.48
1N4369	SR	.90	.60
1N4370-1N4372	SZ	2.00	1.50
1N4370A-1N4372A	SZ	2.80	2.10
JAN 1N4370A-72A (MIL-S-19500/127D)	SZ	2.95	2.25
1N4383	SR	.67	.45
1N4384	SR	.73	.49
1N4385	SR	.81	.54

Device No.	Type (Note 1)	1-99	100-999
2N117	SG	8.15	5.45
JAN 2N117 (MIL-S-19500/35B)	SG	8.45	5.65
USN 2N117 (MIL-T-19500/35)	SG	8.45	5.65
2N118	SG	8.15	5.45
JAN 2N118 (MIL-S-19500/2A)	SG	9.15	6.35
2N118A	SG	8.15	5.45
2N119	SG	11.05	7.35
JAN 2N119 (MIL-S-19500/35B)	SG	11.45	7.55
USN 2N119 (MIL-T-19500/35)	SG	11.45	7.55
2N120	SG	12.60	8.40
2N122	SG	60.00	40.00
2N243	SG	13.75	9.15
2N244	SG	20.45	13.60
2N250†	GP	1.90	1.25
2N250A	GP	1.90	1.15
2N251†	GP	2.25	1.5C
2N251A	GP	2.25	1.25
2N263	SG	17.85	11.90
2N264	SG	11.50	7.65
2N332	SG	4.65	3.10
2N332A	SG	4.90	3.30
USN 2N332 (MIL-T-19500/37A)	SG	4.95	3.30
2N333	SG	4.65	3.10
2N333A	SG	4.90	3.30
USN 2N333 (MIL-T-19500/37A)	SG	4.95	3.30
JAN 2N333 (MIL-S-19500/37C)	SG	4.95	3.30
2N334	SG	4.65	3.10
2N334A	SG	4.90	3.30
USN 2N334 (MIL-T-19500/37A)	SG	4.95	3.30
2N335	SG	4.90	3.30
2N335A	SG	5.20	3.50
USN 2N335 (MIL-T-19500/37A)	SG	5.25	3.50
JAN 2N335 (MIL-S-19500/37C)	SG	5.25	3.50
2N336	SG	4.90	3.30
2N336A	SG	6.25	4.20
JAN 2N336 (MIL-S-19500/37C)	SG	6.30	4.20
2N337	SG	4.85	3.20
USN 2N337 (MIL-S-19500/69C)	SG	5.15	3.40
JAN 2N337 (MIL-S-19500/69D)	SG	5.15	3.40
2N338	SG	5.50	3.65
USN 2N338 (MIL-S-19500/69C)	SG	5.80	3.85
JAN 2N338 (MIL-S-19500/69D)	SG	5.80	3.85
2N339	SG	10.15	6.75
2N340	SG	10.80	7.20
2N341	SG	17.50	11.65
JAN 2N341 (MIL-S-19500/31B)	SG	17.50	11.65
2N342	SG	11.85	7.90
JAN 2N342 (MIL-S-19500/16E)	SG	14.55	9.65
2N342A	SG	11.90	7.95
2N343	SG	18.40	12.25
JAN 2N343 (MIL-S-19500/16E)	SG	21.75	14.45
JAN 2N358A (MIL-S-19500/63C)	GA	3.92	2.62
2N388	GA	.60	.40
2N388A	GA	1.03	.69
JAN 2N388 (MIL-S-19500/65A)	GA	.61	.41
2N389	SP	21.00	14.00
2N389A	SP	21.00	14.00
JAN 2N389 (MIL-S-19500/173A)	SP	21.50	14.35
2N395	GA	.50	.33
2N396	GA	.61	.41

Device No.	Type (Note 1)	1-99	100-999
2N397	GA	1.11	.74
2N398	GA	1.24	.83
2N398A	GA	1.24	.83
2N404	GA	.46	.31
2N404A	GA	.66	.44
JAN 2N404 (MIL-S-19500/20B)	GA	.50	.33
JAN 2N404A (MIL-S-19500/20B)	GA	.69	.46
USAF 2N404 (MIL-T-19500/20)	GA	.50	.33
USA 2N416 (MIL-T-19500/56A)*	GA	1.09	.73
USA 2N417 (MIL-T-19500/57A)*	GA	1.27	.85
2N424	SP	16.50	11.00
2N424A	SP	16.50	11.00
JAN 2N424 (MIL-S-19500/173A)	SP	17.00	11.35
2N426	GA	.72	.48
2N427	GA	.92	.61
USA 2N427 (MIL-T-19500/43A)	GA	1.34	.89
2N428	GA	1.23	.82
JAN 2N428M (MIL-S-19500/44C)	GA	1.48	.99
2N456A	GP	1.80	1.20
2N456B	GP	1.80	1.20
2N457A	GP	2.65	1.45
2N457B	GP	2.65	1.45
2N458A	GP	2.80	1.75
2N458B	GP	2.80	1.75
2N470*	SG	3.45	2.30
2N471*	SG	5.60	3.75
2N472*	SG	7.45	4.95
2N473*	SG	3.45	2.50
2N474*	SG	6.40	4.30
2N475*	SG	7.95	5.30
2N476*	SG	8.80	6.00
2N477*	SG	9.80	6.55
2N478*	SG	3.70	2.80
2N479*	SG	7.10	4.75
2N480*	SG	9.50	6.55
2N489	SA	7.10	4.75
2N489	SA	8.50	5.95
▲ JAN 2N489A (MIL-S-19500/75A)	SA	7.85	5.25
2N489B	SA	9.15	6.10
AF 2N489 (MIL-T-19500/75)	SA	7.85	5.25
2N490	SA	7.80	5.20
2N490A	SA	8.35	5.55
▲ JAN 2N490A (MIL-S-19500/75A)	SA	8.95	6.40
2N490B	SA	9.85	6.55
AF 2N490 (MIL-T-19500/75)	SA	8.55	5.70
2N491	SA	8.40	5.60
2N491A	SA	8.90	5.95
▲ JAN 2N491A (MIL-S-19500/75A)	SA	9.45	7.15
2N491B	SA	10.40	6.95
AF 2N491 (MIL-T-19500/75)	SA	9.15	6.10
2N492	SA	9.80	6.55
2N492A	SA	10.40	6.95
▲ JAN 2N492A (MIL-S-19500/75A)	SA	9.95	7.95
2N492B	SA	11.90	7.95
AF 2N492 (MIL-T-19500/75)	SA	10.55	7.05
2N493	SA	10.75	7.20
2N493A	SA	11.20	7.50
JAN 2N493A (MIL-S-19500/75A)	SA	11.40	7.60
2N493B	SA	12.75	8.50
AF 2N493 (MIL-T-19500/75)	SA	11.40	7.60
2N494	SA	10.90	7.30
2N494A	SA	11.40	7.60
JAN 2N494A (MIL-S-19500/75A)	SA	11.60	7.70
2N494B	SA	12.90	8.60
2N494C	SA	14.95	9.90
AF 2N494 (MIL-T-19500/75)	SA	11.60	7.70
2N497	SP	1.89	1.26
2N497A	SP	2.05	1.37
JAN 2N497 (MIL-S-19500/74D)	SP	1.96	1.31
2N498	SP	2.12	1.41
2N498A	SP	3.45	2.30
JAN 2N498 (MIL-S-19500/74D)	SP	2.18	1.46
2N508	GA	.32	.61
2N511	GP	4.05	2.70
2N511A	GP	4.75	3.15
2N511B	GP	5.20	3.45
2N512	GP	4.75	3.15
2N512A	GP	5.40	3.60
2N512B	GP	7.10	4.75
2N513	GP	6.00	4.00
2N513A	GP	6.65	4.45
2N513B	GP	8.70	5.80
2N514	GP	8.25	5.50
2N514A	GP	8.40	5.60
2N514B	GP	12.00	8.00
2N541*	SG	6.20	4.10
2N542	SG	6.30	4.20
2N543	SG	8.10	5.40
2N594	GA	2.75	1.83
2N595	GA	4.25	2.83

Device No.	Type (Note 1)	1-99	100-999
2N596	GA	5.65	3.77
2N650A	GA	1.69	1.13
2N651A	GA	1.69	1.13
JAN 2N651A (MIL-S-19500/175B)	GA	2.82	1.88
2N652A	GA	2.25	1.50
JAN 2N652A (MIL-S-19500/175B)	GA	3.33	2.22
2N656	SP	2.03	1.35
2N656A	SP	2.40	1.60
JAN 2N656 (MIL-S-19500/74D)	SP	2.10	1.40
2N657	SP	2.20	1.47
2N657A	SP	9.00	6.00
JAN 2N657 (MIL-S-19500/74D)	SP	8.65	5.75
2N658	GA	1.28	.85
2N659	GA	1.30	.87
2N660	GA	1.48	.99
2N661	GA	1.71	1.14
2N662	GA	1.40	.93
▼ 2N681	SCR	3.30	2.20
▼ 2N681A	SCR	3.85	2.42
▼ 2N682	SCR	4.13	2.75
▼ 2N682A	SCR	4.55	3.03
▼ 2N683	SCR	6.19	4.13
▼ 2N683A	SCR	6.80	4.55
▼ 2N684	SCR	6.35	4.24
▼ 2N684A	SCR	7.00	4.65
▼ 2N685	SCR	6.60	4.40
▼ 2N685A	SCR	7.25	4.84
▼ 2N686	SCR	7.01	4.68
▼ 2N686A	SCR	7.70	5.15
▼ 2N687	SCR	14.60	9.75
▼ 2N687A	SCR	16.00	10.70
▼ 2N688	SCR	17.10	11.40
▼ 2N688A	SCR	18.80	12.50
▼ 2N689	SCR	20.60	13.75
▼ 2N689A	SCR	22.60	15.10
2N696	SM	.93	.62
JAN 2N696 (MIL-S-19500/99D)	SM	1.12	.75
USA 2N696 (MIL-S-19500/99A)	SM	1.25	.83
2N697	SM	1.12	.75
JAN 2N697 (MIL-S-19500/99D)	SM	1.29	.86
USA 2N697 (MIL-S-19500/99A)	SM	1.35	.90
2N698	SM	1.57	1.05
2N699	SM	1.73	1.15
2N702§	SM	6.75	4.50
USA 2N702 (MIL-S-19500/153)§	SM	7.65	5.10
2N703§	SM	6.75	4.50
USA 2N703 (MIL-S-19500/153)§	SM	7.85	5.25
2N705	GM	1.04	.69
JAN 2N705 (MIL-S-19500/86A)	GM	1.14	.76
2N706	SM	.99	.66
JAN 2N706 (MIL-S-19500/120B)	SM	1.29	.86
2N706A	SM	1.19	.79
2N706B	SM	1.49	.99
2N708	SM	1.32	.88
2N709	SM	2.48	1.65
2N710	GM	1.34	.89
2N711	GM	.89	.59
2N711A	GM	.89	.59
2N711B	GM	.94	.63
2N715§	SM	34.65	23.10
2N716§	SM	43.10	28.70
2N717	SM	.99	.66
2N718	SM	1.30	.86
▲ 2N718A	SM	2.00	1.33
▲ JAN 2N718A (MIL-S-19500/181B)	SM	4.68	3.12
* USN 2N718A (MIL-S-19500/181A)	SM	—	—
2N719	SM	2.35	1.56
2N719A	SM	2.50	1.67
2N720	SM	1.83	1.22
2N720A	SM	2.71	1.81
2N721	SM	5.60	3.75
2N722	SM	5.60	3.75
2N726	SM	3.00	2.00
2N727	SM	3.15	2.10
2N730	SM	.99	.66
2N731	SM	1.30	.86
2N734§	SM	2.50	1.65
2N735	SM	2.50	1.65
2N736	SM	2.50	1.65
2N736A	SM	2.50	1.65
2N738§	SM	2.70	1.80
2N739	SM	2.70	1.80
2N740	SM	2.70	1.80
2N743	SM	6.20	4.15
2N744	SM	2.90	1.95
USN 2N744 (MIL-S-19500/273)	SM	7.05	4.80
2N753	SM	1.97	1.31
2N759	SM	2.50	1.65
2N759A	SM	2.70	1.80
USA 2N759A (MIL-S-19500/218)	SM	3.00	2.00

*Later military version available, see JAN type number.

2N760 - 2N1565

Device No.	Type (Note 1)	1-99	100-999
2N760	SM	2.50	1.60
2N760A	SM	2.70	1.80
USA 2N760A (MIL-S-19500/218)	SM	3.00	2.00
2N780	SM	7.50	5.00
2N797	GM	4.27	2.85
2N849	SM	6.00	4.00
2N850	SM	7.10	4.75
2N851	SM	8.45	5.65
2N852	SM	9.43	6.30
2N870	SM	5.25	3.50
2N871	SM	5.33	3.56
2N876	SCR	7.20	5.40
2N877	SCR	10.00	6.70
2N878	SCR	13.00	8.90
2N879	SCR	17.77	11.85
2N880	SCR	28.25	18.90
2N881	SCR	30.00	20.00
2N884	SCR	9.00	6.00
2N885	SCR	11.25	7.50
2N886	SCR	14.70	9.80
2N887	SCR	21.60	14.40
2N888	SCR	33.00	22.00
2N889	SCR	36.00	24.00
2N910	SM	2.61	1.74
JAN 2N910 (MIL-S-19500/274)	SM	10.50	7.00
2N911	SM	5.55	3.70
JAN 2N911 (MIL-S-19500/274)	SM	7.50	5.00
2N912	SM	5.30	4.00
JAN 2N912 (MIL-S-19500/274)	SM	7.73	5.15
2N914	SM	1.04	.84
2N916	SM	3.65	2.90
USN 2N916 (MIL-S-19500/271A)	SM	4.87	3.25
2N917	SM	4.95	3.30
2N918	SM	5.25	3.50
USA 2N918 (MIL-S-19500/301)	SM	6.00	4.00
2N929	SM	3.60	2.40
2N929A	SM	4.50	3.00
JAN 2N929 (MIL-S-19500/253A)	SM	5.70	3.80
2N930	SM	3.87	2.65
2N930A	SM	5.40	3.60
JAN 2N930 (MIL-S-19500/253A)	SM	6.15	4.10
2N956	SM	2.60	1.73
2N960	GM	.96	.64
2N961	GM	.91	.61
2N962	GM	.86	.57
JAN 2N962 (MIL-S-19500/258A)	GM	1.14	.76
2N963	GM	.83	.55
2N964	GM	.99	.66
JAN 2N964 (MIL-S-19500/258A)	GM	1.27	.85
2N965	GM	.94	.63
2N966	GM	.89	.59
2N967	GM	.87	.58
2N968	GM	.90	.60
2N969	GM	.84	.56
2N970	GM	.81	.54
2N971	GM	.80	.53
2N972	GM	.93	.62
2N973	GM	.89	.59
2N974	GM	.83	.55
2N975	GM	.81	.54
2N985	GM	2.83	1.89
2N997	SM	15.00	10.00
2N1021	GP	3.55	2.05
2N1021A	GP	3.55	2.05
2N1022	GP	4.15	2.40
2N1022A	GP	4.15	2.40
2N1038	GP	2.85	1.90
2N1039	GP	3.75	2.50
JAN 2N1039 (MIL-S-19500/89C)	GP	4.50	3.00
2N1040	GP	5.70	3.80
2N1041	GP	7.50	5.00
JAN 2N1041 (MIL-S-19500/89C)	GP	8.25	5.50
2N1042	GP	4.50	3.00
JAN 2N1042 (MIL-S-19500/137B)	GP	5.25	3.50
2N1043	GP	5.85	3.90
JAN 2N1043 (MIL-S-19500/137B)	GP	6.60	4.40
2N1044	GP	8.80	5.85
JAN 2N1044 (MIL-S-19500/137B)	GP	9.55	6.35
2N1045	GP	11.45	7.65
JAN 2N1045 (MIL-S-19500/137B)	GP	12.20	8.15
2N1046	GP	8.25	5.50
USN 2N1046 (MIL-S-19500/88)	GP	8.85	5.90
2N1046A†	GP	18.35	12.25
2N1046B†	GP	25.00	16.70
2N1047	SP	14.30	9.55
2N1047A	SP	14.30	9.55
JAN 2N1047A (MIL-S-19500/176A)	SP	15.05	10.05
2N1047B	SP	25.95	17.30
2N1048	SP	18.10	12.05
2N1048A	SP	18.10	12.05

Device No.	Type (Note 1)	1-99	100-999
JAN 2N1048A (MIL-S-19500/176A)	SP	18.85	12.55
2N1048B	SP	38.30	25.50
2N1049	SP	16.75	11.15
2N1049A	SP	16.75	11.15
JAN 2N1049A (MIL-S-19500/176A)	SP	17.50	11.65
2N1049B	SP	33.75	22.50
2N1050	SP	22.10	14.20
2N1050A	SP	22.10	14.20
JAN 2N1050A (MIL-S-19500/176A)	SP	22.85	14.70
2N1050B	SP	46.90	31.20
2N1131	SM	5.60	3.75
USN 2N1131 (MIL-S-19500/177B)	SM	6.00	4.00
2N1132	SM	5.60	3.75
USN 2N1132 (MIL-S-19500/177B)	SM	6.00	4.00
2N1141	GM	4.83	3.22
2N1141A	GM	13.70	9.14
2N1142	GM	4.20	2.80
2N1142A	GM	6.29	4.18
USN 2N1142 (MIL-S-19500/87)	GM	4.61	3.08
2N1143	GM	3.50	2.33
2N1143A	GM	5.86	3.91
2N1149	SG	8.65	5.75
2N1150	SG	8.65	5.75
2N1151	SG	8.65	5.75
2N1152	SG	11.35	7.55
2N1153	SG	13.35	8.90
2N1154	SG	12.65	8.40
2N1155	SG	13.15	8.80
2N1156	SG	17.65	11.75
2N1195	GM	3.95	2.63
2N1247§	SM	13.50	9.00
2N1248§	SM	13.50	9.00
2N1252	SM	6.90	4.55
2N1253	SM	11.95	7.95
2N1273††	GA	.42	.28
2N1274††	GA	.50	.33
2N1276	SG	3.85	2.55
2N1277	SG	4.25	2.84
2N1278	SG	4.75	3.15
2N1279	SG	5.60	3.70
2N1300	GA	1.83	1.22
2N1301	GA	2.50	1.67
2N1302	GA	.50	.33
JAN 2N1302 (MIL-S-19500/126B)	GA	.51	.34
2N1303	GA	.50	.33
JAN 2N1303 (MIL-S-19500/126B)	GA	.51	.34
2N1304	GA	.60	.40
JAN 2N1304 (MIL-S-19500/126B)	GA	.64	.43
2N1305	GA	.60	.40
JAN 2N1305 (MIL-S-19500/126B)	GA	.64	.43
2N1306	GA	.80	.53
JAN 2N1306 (MIL-S-19500/126B)	GA	.83	.57
2N1307	GA	.80	.53
JAN 2N1307 (MIL-S-19500/126B)	GA	.83	.57
2N1308	GA	1.08	.72
JAN 2N1308 (MIL-S-19500/126B)	GA	1.16	.77
2N1309	GA	1.07	.72
JAN 2N1309 (MIL-S-19500/126B)	GA	1.16	.77
2N1310	GA	4.50	3.00
2N1311	GA	3.23	2.15
2N1312	GA	1.77	1.18
2N1370††	GA	.72	.48
2N1371††	GA	1.14	.76
2N1372	GA	.81	.54
2N1373	GA	1.20	.80
2N1374	GA	1.02	.68
2N1375	GA	1.38	.92
2N1376	GA	1.29	.86
2N1377	GA	1.50	1.00
2N1378	GA	1.29	.86
2N1379	GA	1.44	.96
2N1380	GA	.66	.44
2N1381	GA	.72	.48
2N1382††	GA	.99	.66
2N1383††	GA	.92	.61
2N1385	GM	15.47	10.31
2N1404	GA	.58	.39
2N1420	SM	1.20	.80
2N1487	SP	4.54	3.03
2N1488	SP	4.95	3.30
2N1489	SP	7.43	4.95
2N1490	SP	8.25	5.50
2N1507	SM	1.20	.80
2N1539	GP	1.60	1.05
2N1540	GP	1.80	1.20
2N1541	GP	2.85	1.90
2N1542	GP	3.50	2.35
2N1543	GP	5.75	3.15
2N1564§	SM	2.50	1.65
2N1565	SM	2.50	1.65

Device No.	Type (Note 1)	1-99	100-999
2N1566	SM	2.50	1.65
2N1566A	SM	2.50	1.65
2N1572§	SM	2.70	1.80
2N1573	SM	2.70	1.80
2N1574	SM	2.70	1.80
2N1586*	SG	4.65	3.10
2N1587*	SG	4.50	3.00
2N1588*	SG	6.15	4.10
2N1589*	SG	4.90	3.25
2N1590*	SG	5.25	3.50
2N1591*	SG	6.30	4.20
2N1592*	SG	7.75	5.15
2N1593*	SG	9.05	6.05
2N1594*	SG	10.30	6.85
2N1595	SCR	3.05	2.05
2N1596	SCR	4.50	3.05
2N1597	SCR	9.45	6.30
2N1598	SCR	14.45	9.65
2N1599	SCR	19.35	12.90
2N1600	SCR	6.00	4.00
2N1601	SCR	7.50	5.00
2N1602	SCR	12.00	8.00
2N1603	SCR	16.50	11.00
2N1604	SCR	21.00	14.00
2N1605	GA	.72	.48
▲ 2N1613	SM	2.30	1.53
▲ JAN 2N1613 (MIL-S-19500/181B)	SM	3.80	2.40
* USN 2N1613 (MIL-S-19500/181A)	SM	—	—
2N1671	SG	2.95	1.98
2N1671A	SG	3.20	2.14
2N1671B	SG	3.55	2.36
2N1683	GA	3.17	2.11
2N1690	SP	28.10	18.70
2N1691	SP	40.80	27.20
▲ 2N1711	SM	2.96	1.98
▲ JAN 2N1711 (MIL-S-19500/225C)	SM	6.35	4.23
* USN 2N1711 (MIL-S-19500/225B)	SM	—	—
2N1714	SP	6.00	4.00
USA 2N1714 (MIL-S-19500/263A)	SP	6.45	4.30
2N1715	SP	8.25	5.50
USA 2N1715 (MIL-S-19500/263A)	SP	8.70	5.80
2N1716	SP	7.50	5.00
USA 2N1716 (MIL-S-19500/263A)	SP	7.95	5.30
2N1717	SP	11.25	7.50
USA 2N1717 (MIL-S-19500/263A)	SP	11.70	7.80
2N1718	SP	6.75	4.50
2N1719	SP	9.00	6.00
2N1720	SP	8.25	5.50
2N1721	SP	12.00	8.00
2N1722	SP	52.50	35.00
2N1722A	SP	60.00	40.00
JAN 2N1722 (MIL-S-19500/262B)	SP	57.00	38.00
2N1723	SP	54.00	36.00
2N1724	SP	55.50	37.00
2N1724A	SP	63.00	42.00
JAN 2N1724 (MIL-S-19500/262B)	SP	60.00	40.00
2N1725	SP	57.00	38.00
2N1770	SCR	5.55	3.70
2N1771	SCR	6.00	4.00
2N1772	SCR	7.50	5.00
2N1773	SCR	9.75	6.50
2N1774	SCR	12.00	8.00
2N1775	SCR	14.25	9.50
2N1776	SCR	16.50	11.00
2N1777	SCR	21.00	14.00
2N1808	GA	.58	.39
▼ 2N1842B	SCR	2.89	1.93
▼ 2N1843B	SCR	3.71	2.48
▼ 2N1844B	SCR	5.78	3.85
▼ 2N1845B	SCR	5.94	3.96
▼ 2N1846B	SCR	6.19	4.13
▼ 2N1847B	SCR	6.60	4.40
▼ 2N1848B	SCR	12.70	8.45
▼ 2N1849B	SCR	15.60	10.40
▼ 2N1850B	SCR	18.40	12.25
2N1889	SM	5.25	3.50
2N1890	SM	5.32	3.55
▲ 2N1893	SM	3.42	2.28
▲ JAN 2N1893 (MIL-S-19500/182A)	SM	7.20	4.80
* USN 2N1893 (MIL-S-19500/182)	SM	—	—
2N1907	GP	7.90	5.25
2N1908	GP	11.30	7.50
2N1936	SP	67.50	45.00
2N1937	SP	75.00	50.00
2N1973	SM	8.00	6.00
2N1974	SM	6.70	5.00
2N1975	SM	5.30	4.00
2N1993	GA	1.48	.99
2N1994	GA	2.33	1.55
2N1995	GA	3.75	2.50

Device No.	Type (Note 1)	1-99	100-999
2N1996	GA	5.14	3.43
2N1997	GA	1.77	1.18
2N1998	GA	1.88	1.25
2N1999	GA	2.07	1.38
2N2000	GA	2.50	1.67
2N2001	GA	2.17	1.45
2N2060	SM	27.00	18.00
JAN 2N2060 (MIL-S-19500/270B)	SM	45.00	30.00
JAN TX2N2060* (MIL-S-19500/270B)	SM	52.00	35.00
2N2150	SP	22.50	15.00
2N2151	SP	24.75	16.50
2N2160	SG	1.49	.99
2N2188	GA	1.28	.85
2N2189	GA	1.64	1.09
2N2190	GA	1.47	.98
2N2191	GA	1.85	1.23
2N2192	SM	4.20	2.80
2N2192A	SM	4.45	2.95
2N2193	SM	2.95	1.95
2N2193A	SM	3.15	2.10
2N2194	SM	2.20	1.47
2N2194A	SM	2.45	1.63
2N2217	SM	3.02	2.01
2N2218	SM	3.56	2.37
JAN 2N2218 (MIL-S-19500/251D)	SM	5.26	3.51
2N2218A	SM	5.26	3.51
▼ JAN 2N2218A (MIL-S-19500/251D)	SM	5.28	3.85
2N2219	SM	3.56	2.37
JAN 2N2219 (MIL-S-19500/251D)	SM	6.07	4.05
2N2219A	SM	6.07	4.05
JAN 2N2219A (MIL-S-19500/251D)	SM	6.67	4.45
2N2220	SM	3.02	2.01
2N2221	SM	3.55	2.37
JAN 2N2221 (MIL-S-19500/255D)	SM	5.26	3.51
JAN 2N2221A (MIL-S-19500/255D)	SM	5.78	3.85
2N2221A	SM	5.26	3.51
2N2222	SM	3.98	2.65
JAN 2N2222 (MIL-S-19500/255D)	SM	6.07	4.05
2N2222A	SM	6.07	4.05
JAN 2N2222A (MIL-S-19500/255D)	SM	6.67	4.45
2N2223	SM	10.00	6.70
2N2223A	SM	15.00	10.00
2N2243	SM	4.80	3.20
2N2243A	SM	5.10	3.40
2N2368	SM	2.31	1.54
2N2369	SM	2.40	1.60
2N2369A	SM	3.45	2.30
2N2386	SM	6.75	4.50
2N2387/T1 420	SM	11.55	7.70
2N2388/T1 421	SM	14.40	9.65
2N2389/T1 424	SM	14.40	9.65
2N2390/T1 425	SM	15.80	10.55
2N2393/T1 428	SM	8.85	5.90
2N2394/T1 429	SM	18.00	12.00
2N2395/T1 432	SM	10.10	6.75
2N2396/T1 433	SM	11.55	7.70
2N2410	SM	4.50	3.00
2N2411	SM	3.15	2.10
2N2412	SM	6.00	4.00
2N2413§	SM	11.55	7.70
2N2415	GM	26.30	17.50
2N2416	GM	37.50	25.00
2N2432	SM	12.00	8.00
JAN TX2N2432 (19500/313)	SM	14.28	9.52
2N2453	SM	30.00	20.00
2N2481	SM	3.90	2.60
* USN 2N2481 (MIL-S-19500/268A)	SM	—	—
JAN 2N2481 (MIL-S-19500/268B)	SM	3.90	2.60
2N2483	SM	3.60	2.40
2N2484	SM	3.87	2.65
2N2497	SM	12.90	8.60
2N2498	SM	11.11	7.40
2N2499	SM	12.90	8.60
2N2500	SM	19.20	12.80
2N2537	SM	4.95	3.30
2N2538	SM	5.85	3.90
2N2539	SM	4.95	3.30
2N2540	SM	5.85	3.90
2N2552	GP	3.00	2.00
2N2553	GP	3.90	2.60
JAN 2N2553 (MIL-S-19500/89C)	GP	4.65	3.10
2N2554	GP	5.85	3.90
2N2555	GP	9.15	6.10
JAN 2N2555 (MIL-S-19500/89C)	GP	9.90	6.60
2N2556	GP	3.05	2.05
2N2557	GP	3.95	2.65
JAN 2N2557 (MIL-S-19500/89C)	GP	4.70	3.15
2N2558	GP	5.90	3.95
2N2559	GP	9.20	6.15
JAN 2N2559 (MIL-S-19500/89C)	GP	9.95	6.65

*Later military version available, see JAN type number.



Now-you can design using economy

Now — in economy plastic packages — integrated circuits, silicon and germanium bipolar transistors, FET's, unijunctions, power transistors, and silicon rectifiers . . . all from TI.

Now you can reduce the cost of entire electronic systems while retaining top performance. Many new additions to TI's already broad line of plastic-encapsulated semiconductors now make it possible for you to design high-performance circuits, like the variable timing control shown at the right, using low-cost, plastic-encapsulated TI semiconductors exclusively. Your rapidly expanding choices at TI now include:

New plastic-encapsulated unijunction features 20-times lower leakage at less than 1/3 the price

TI's new TIS43 plastic-encapsulated unijunction transistor — industry's first — now adds increased savings to the inherent economy of simplified UJT circuitry. Made possible by combining TI's proven planar UJT technology with advanced SILECT plastic packaging techniques, this new transistor offers 20 times lower leakage than the best conventional silicon-alloy TO-18 unijunctions currently selling at more than three times the price.

Extremely low leakage (10 nA max, 0.1 nA typical at 25°C) makes the TIS43 ideal for precision timing circuits. Low leakage also permits the use of smaller, less expensive capacitors. This economy, combined with low initial price and the reduced component count possible with unijunction circuitry, permits important cost savings in a wide range of applications.

Vibration and shock resistance have been increased threefold over alloy UJT's through use of the more rugged planar construction (shown in figure 3) and a solid, one-piece plastic package. The TIS43 will withstand over 60,000 G constant acceleration, making it ideal for use in military fuzes and heavy-duty industrial applications.

Principal electrical characteristics are: $I_{EO} = 10$ nA max at 25°C; $\eta = 0.55$ min, 0.82 max; $r_{bb} = 4.0$ k Ω min, 9.1 k Ω max; $V_{OB1} = 3.0$ V min. (Similar characteristics are available in a metal TO-18 package — designated 2N3980.)

Applications include oscillators, voltage-and current-sensing circuits, multivibrators, waveform generators, and astable and bistable circuits. The TIS43 is also ideal for an economical triggering device for SCR's. Circle 181 on the Reader Service card for data sheet.

New plastic package for TI integrated circuits

This new plug-in economy package has 14 pins on 100-mil centers with rows 300 mils apart. The package is designed for economical flow-soldering techniques and is adaptable to high-speed automatic or manual insertion. Most of TI's more than 150 integrated circuit types are available in this new package.

Three new series of SILECT silicon bipolar amplifiers

For low-noise, low-level applications, the PNP 2N4058-62 offers 1.7 dB typical noise figure and an h_{FE} of 200 typical at $I_c = 1$ mA. These units are complements to the 2N3707-11 NPN series. Circle 182 on Reader Service card for data sheet.

For FM RF and IF applications, the NPN

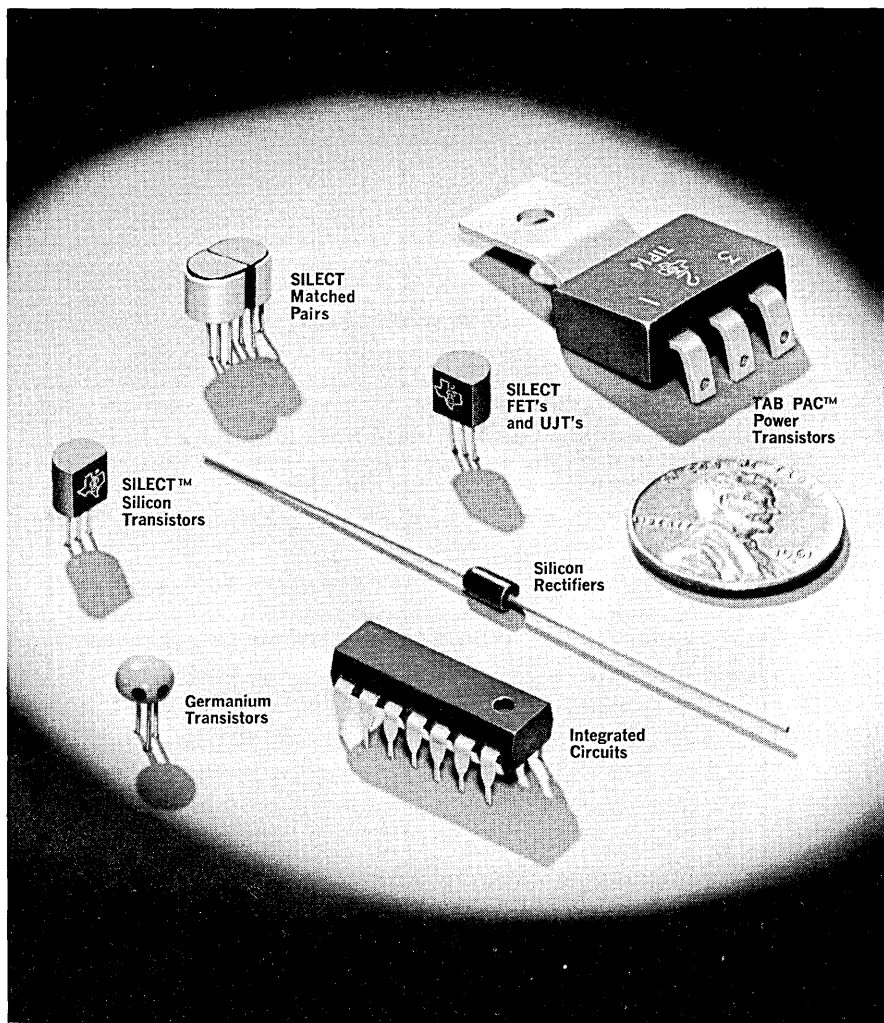


Figure 1. Industry's broadest selection of economy semiconductors helps reduce cost, improve performance of industrial and consumer equipments.

TI cannot assume any responsibility for any circuits shown or represent that they are free from patent infringement.

complete electronic systems semiconductors from TI

2N4254-55 Series provides low feedback capacitance ($C_{cb} = 0.65$ pF max) for high, stable gain without neutralization and low noise (2.8 dB typical at 100 MHz). High power gain (26 dB typical MAG at 100 MHz) makes possible high performance from low-cost circuits. Circle 183 on Reader Service card for data sheet.

For auto radio RF and IF applications, the PNP TIS37-38 is interchangeable with many popular germanium drift-field transistors, providing higher temperature capability at no added cost. Noise figure of the TIS37-38 is 3 dB typical at 1 MHz, 75 ohms. Circle 184 on Reader Service card for data sheet.

Twelve new SILECT silicon bipolar switching transistors

Twelve new economy devices cover a broad range of popular metal-case types. (JEDEC 2N nearest equivalents are indicated in parentheses): TIS51(3011), TIS47(2368), TIS48(2369), TIS49(2369A), TIS50(2894), TIS53(3639), TIS54(3640), TIS44(706), TIS45(708), TIS46(914), TIS52(3014), TIS55(3646). Write for specific data sheets.

Two new SILECT N-channel field-effect transistors

Here is industry's first plastic FET chopper. The new TIXS42 features a low $r_{ds(on)}$ of 70 ohms max and low I_C of 5 nA max at 25°C. It is well suited to high-speed commutators, relay contact replacement, and analog-digital converters. Circle 185 on Reader Service card for data sheet.

For VHF TV, FM radio and communications equipment, the new TIS34 combines low feedback capacitance ($C_{fss} < 2$ pF) and high transconductance ($|Y_{fs}| = 3500 - 6500$ μ mhos), permitting the design of high-gain un-neutralized VHF circuits (grounded-gate connection). Other features include high y_{fs}/C_{fss} ratio (high-frequency figure-of-merit), and low cross-modulation. Circle 186 on Reader Service card for data sheet.

New plastic-encapsulated germanium planar transistors

Two new additions to TI's plastic-encapsulated germanium planar line cover a broad range of AM-FM-TV high-frequency applications.

The TIXM10, for RF amplifier and mixer applications, provides an h_{fe} of 16 dB min, 22 dB max at 100 MHz, $r_{b'c_e}$ of 6 pF max, and a noise figure of 4 dB max at 200 MHz. The TIXM11, for oscillator and IF amplifier applications, features h_{fe} of 29 dB min, 39 dB max at 10 MHz, 30-50 dB at 455 kHz, and 14 dB at 100 MHz. Circle 187 on Reader Service card for data sheets.

New plastic-encapsulated silicon rectifiers

These new compact, low-cost axial-lead silicon rectifiers help you reduce cost of industrial and consumer equipment. The 1N4001-07 rectifiers are rated at 1 amp, 50 to 1000 volts. They are smaller (0.200" long by 0.100" dia) and less costly than glass, top hat, and flangeless rectifiers. Features include high surge current capability (30 amps single cycle surge), low forward voltage drop ($V_F = 1.1$ V at 1 amp), excellent moisture resistance, and an isolated package that requires no insulating sleeve. Circle 188 on Reader Service card for data sheet.

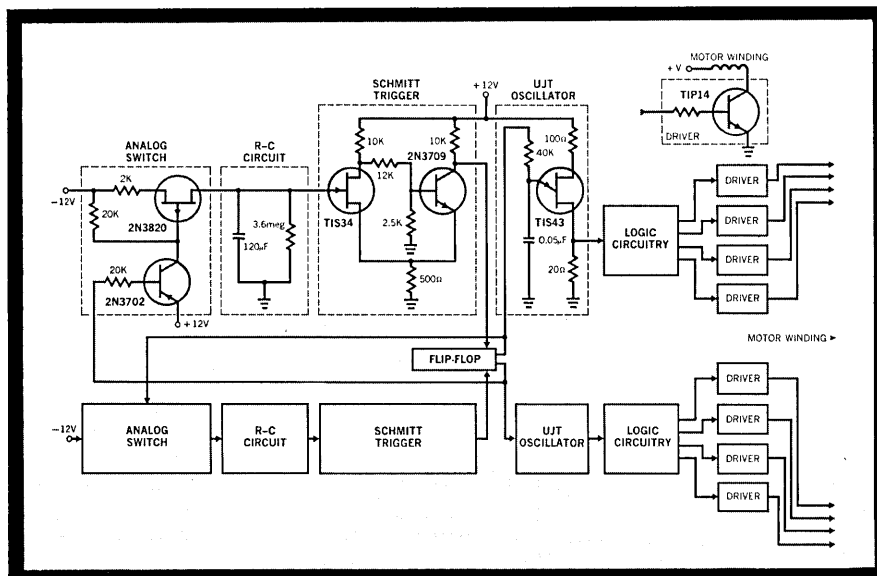


Figure 2. This variable timing control illustrates use of a variety of economy plastic-packaged TI semiconductors — bipolar transistors, unijunctions, FETs, and Tab-Pac™ silicon power transistors.

TI Exclusive Planar UJT Construction

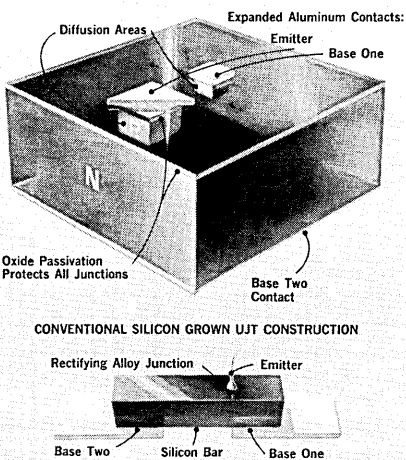


Figure 3. TI's exclusive planar UJT gives lower leakage and greater reliability than conventional silicon alloy UJT's.

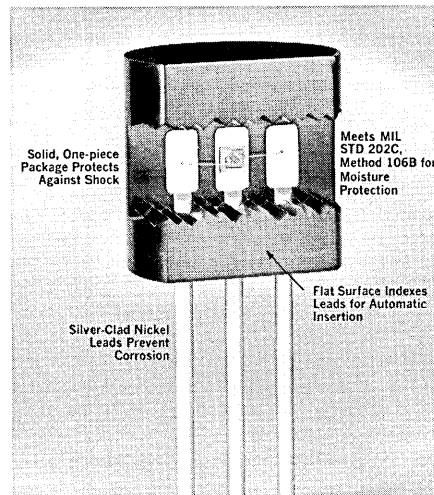


Figure 4. Model illustrates simple, rugged construction of SILECT (SILicon EConomy Transistor) package. Rapidly expanding, mechanized production assures volume availability.



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2N2560 - 2N3336

Device No.	Type (Note 1)	1-99	100-999
2N2560	GP	4.45	3.95
2N2561	GP	5.80	3.85
2N2562	GP	8.70	5.80
2N2563	GP	11.40	7.60
2N2564	GP	4.30	2.85
2N2565	GP	5.65	3.75
2N2566	GP	8.55	5.70
2N2567	GP	11.25	7.50
2N2586	SM	7.50	5.00
2N2604	SM	6.00	4.00
2N2605	SM	6.60	4.40
2N2631	SP	29.45	14.30
2N2635	GM	.94	.63
2N2639	SM	22.00	14.70
2N2640	SM	20.25	13.50
2N2641	SM	9.00	6.00
2N2642	SM	26.25	17.50
JAN TX2N2642 (1950/316)	SM	45.00	30.00
2N2643	SM	25.00	16.70
2N2644	SM	15.60	10.40
2N2653	SCR	24.00	16.00
2N2659	GP	1.80	1.20
2N2660	GP	2.35	1.55
2N2661	GP	2.85	1.90
2N2662	GP	1.95	1.30
2N2663	GP	2.50	1.65
2N2664	GP	3.00	2.00
2N2665	GP	2.40	1.60
2N2666	GP	3.10	2.05
2N2667	GP	3.75	2.50
2N2668	GP	2.55	1.70
2N2669	GP	3.25	2.15
2N2670	GP	3.90	2.60
2N2679	SCR	15.50	10.25
2N2680	SCR	20.00	13.60
2N2681	SCR	30.00	20.00
2N2682	SCR	43.00	28.60
2N2683	SCR	11.10	7.40
2N2684	SCR	14.90	9.90
2N2685	SCR	22.20	14.80
2N2686	SCR	36.00	24.00
2N2687	SCR	6.00	4.00
2N2688	SCR	9.40	6.15
2N2689	SCR	15.00	9.90
2N2690	SCR	24.00	16.00
2N2692	SM	15.00	10.00
2N2693	SM	7.75	5.50
2N2694	SM	5.25	3.50
2N2695	SM	12.40	8.25
2N2696	SM	7.50	5.00
2N2802	SM	49.50	33.00
2N2803	SM	30.00	19.99
2N2804	SM	25.50	17.00
2N2805	SM	60.00	40.00
2N2806	SM	42.00	28.00
2N2807	SM	27.75	18.50
2N2861	SM	8.50	5.65
2N2862	SM	6.00	4.00
2N2863	SM	6.00	4.00
2N2864	SM	5.70	3.80
2N2865	SM	6.50	4.35
2N2876	SP	29.70	19.80
2N2883	SM	30.00	20.00
2N2884	SM	39.00	26.00
2N2894	SM	1.95	1.30
2N2904	SM	7.50	5.00
2N2904A	SM	10.50	7.00
JAN 2N2904 (MIL-S-19500/290A)	SM	8.60	5.75
2N2905	SM	9.00	6.00
2N2905A	SM	12.00	8.00
JAN 2N2905 (MIL-S-19500/290A)	SM	10.10	6.75
2N2906	SM	7.20	4.80
2N2906A	SM	10.50	6.70
JAN 2N2906 (MIL-S-19500/291A)	SM	8.30	5.50
2N2907	SM	8.70	5.80
2N2907A	SM	11.55	7.70
JAN 2N2907 (MIL-S-19500/291A)	SM	9.80	6.55
2N2913	SM	9.90	6.60
2N2914	SM	12.00	8.00
2N2915	SM	22.50	15.00
2N2916	SM	25.50	17.00
2N2918	SM	24.75	16.50
2N2919	SM	24.00	16.00
2N2920	SM	27.00	18.00
2N2944	SM	5.75	3.85
2N2945	SM	5.00	3.35
2N2946	SM	5.75	3.85
2N2987	SP	8.25	5.50
2N2988	SP	11.25	7.50
2N2989	SP	10.20	6.75

Device No.	Type (Note 1)	1-99	100-999
2N2990	SP	13.10	8.75
2N2991	SP	9.00	6.00
2N2992	SP	12.00	8.00
2N2993	SP	10.90	7.25
2N2994	SP	13.90	9.25
2N2996	GM	1.48	.99
2N2997	GM	3.38	2.25
2N2998	GM	52.50	35.00
2N2999	GM	75.00	50.00
2N3001	SCR	7.45	4.95
2N3002	SCR	8.95	5.95
2N3003	SCR	11.20	7.45
2N3004	SCR	14.20	9.45
2N3005	SCR	5.75	3.83
2N3006	SCR	6.15	4.10
2N3007	SCR	8.60	5.75
2N3008	SCR	9.50	6.33
2N3009	SM	1.98	1.32
2N3010	SM	1.90	1.27
2N3011	SM	1.98	1.32
2N3012	SM	1.95	1.30
2N3013	SM	7.00	4.69
JAN 2N3013 (MIL-S-19500/287)	SM	8.05	5.36
2N3014	SM	3.60	2.40
2N3015	SM	3.50	2.00
2N3033	SM	45.00	30.00
2N3034	SM	14.50	9.67
2N3035	SM	12.50	8.30
2N3036	SM	5.50	3.70
2N3037	SM	18.00	12.00
2N3038	SM	19.50	13.00
2N3039	SM	22.50	15.00
2N3040	SM	24.00	16.00

Device No.	Type (Note 1)	1-24	25-99	100-999
2N3043	SM	44.00	38.00	29.40
2N3044	SM	37.50	32.50	25.00
2N3045	SM	22.40	19.40	14.90
2N3046	SM	40.50	35.10	27.00
2N3047	SM	29.90	25.90	19.90
2N3048	SM	15.75	13.70	10.50
2N3049	SM	50.90	44.00	34.00
2N3050	SM	44.00	38.00	29.40
2N3051	SM	29.25	25.40	19.50
2N3052	SM	27.00	23.40	18.00

Device No.	Type (Note 1)	1-99	100-999
2N3114	SM	6.00	4.00
2N3117	SM	7.75	5.50
2N3146	GP	4.60	3.50
2N3147	GP	5.65	3.75
2N3244	SM	15.75	10.50
2N3245	SM	15.75	10.50
2N3250	SM	3.90	2.60
2N3250A	SM	6.90	4.60
2N3251	SM	4.65	3.10
2N3251A	SM	7.65	5.10
2N3252	SM	9.75	6.50
2N3253	SM	9.75	6.50
2N3303	SM	18.00	12.00
2N3304	SM	8.25	5.50
2N3328	SM	10.50	7.00
2N3329	SM	9.15	6.10
2N3330	SM	7.50	5.05
2N3331	SM	9.15	6.10
2N3332	SM	13.20	10.50

Device No.	Type (Note 1)	1-24	25-99	100-999
2N3333	SM	271.50	235.00	181.00
2N3334	SM	213.00	184.50	142.00
2N3335	SM	193.50	167.80	129.00
2N3336	SM	98.00	85.00	65.40

Device No.	Type (Note 1)	1-99	100-999	
2N3347	SM	39.75	26.50	
2N3348	SM	22.00	18.00	
2N3349	SM	18.00	12.00	
2N3350	SM	54.00	36.00	
2N3351	SM	42.00	28.00	
2N3352	SM	30.00	20.00	
2N3418/TIX3033	SP	12.45	8.30	
2N3419/TIX3034	SP	14.10	9.40	
2N3420/TIX3035	SP	13.35	8.90	
2N3421/TIX3036	SP	16.95	11.30	
2N3444	SM	12.00	8.00	
2N3485	SM	8.70	5.80	
2N3485A	SM	12.00	8.00	
2N3486	SM	10.20	6.80	
2N3486A	SM	13.50	9.00	
2N3502	SM	8.70	5.80	
2N3503	SM	11.55	7.70	
2N3504	SM	8.70	5.80	
2N3505	SM	11.55	7.70	
2N3551/TIX210	SP	100.00	67.50	
2N3552/TIX211	SP	112.50	75.00	
2N3554	SM	8.10	5.40	
2N3555	SCR	7.45	4.95	
2N3556	SCR	8.95	5.95	
2N3557	SCR	11.20	7.45	
2N3558	SCR	14.20	9.45	
2N3559	SCR	5.75	3.83	
2N3560	SCR	6.15	4.10	
2N3561	SCR	8.60	5.75	
2N3562	SCR	9.50	6.33	
2N3570	SM	150.00	100.00	
2N3571	SM	15.00	10.00	
2N3572	SM	9.75	6.50	
2N3573	SM	21.75	14.50	
2N3574	SM	17.25	11.50	
2N3575	SM	18.60	12.50	
2N3576	SM	9.40	6.25	
2N3680	SM	49.00	32.60	
2N3702	SM	.45	.30	
2N3703	SM	.49	.33	
2N3704	SM	.61	.41	
2N3705	SM	.57	.38	
2N3706	SM	.52	.35	
2N3707	SM	.60	.40	
2N3708	SM	.48	.32	
2N3709	SM	.45	.30	
2N3710	SM	.49	.33	
2N3711	SM	.54	.36	
2N3712	SM	3.00	2.00	
2N3819	SM	3.75	2.50	
2N3820	SM	3.75	2.50	
2N3821	SM	22.50	14.95	
2N3822	SM	21.70	14.45	
2N3823	SM	12.90	8.60	
2N3824	SM	14.15	9.40	
2N3825	SM	.58	.39	
2N3826	SM	.54	.36	
2N3827	SM	.58	.39	
2N3828	SM	.90	.60	
2N3829	SM	6.00	4.00	
2N3830	SM	13.50	9.00	
2N3831	SM	9.00	6.00	
2N3832	SM	7.50	5.00	
2N3836	SP	66.00	44.00	
2N3837	SP	99.00	66.00	
2N3936	SCR	7.35	4.90	
2N3937	SCR	14.60	9.75	
2N3938	SCR	18.75	12.50	
2N3939	SCR	26.25	17.50	
2N3940	SCR	30.00	20.00	
2N3980	SM	7.35	4.90	
2N3993	SM	30.00	20.00	
2N3994	SM	26.10	16.80	
2N3995	GM	8.85	5.95	
2N3996	SP	42.00	28.00	
2N3997	SP	54.00	36.00	
2N3998	SP	30.00	20.00	
2N3999	SP	42.00	28.00	
2N4000	SP	10.20	6.75	
2N4001	SP	13.10	8.75	
2N4002	SP	112.50	75.00	
2N4003	SP	148.00	99.00	
2N4004	SP	112.50	75.00	
2N4005	SP	148.00	99.00	
2N4058	SM	.99	.67	
2N4059	SM	.76	.51	
2N4060	SM	.81	.54	
2N4061	SM	.82	.55	
2N4062	SM	.90	.60	
2N4104	SM	9.00	6.00	
2N4138	SM	12.00	8.00	
2N4252	SM	1.85	1.23	
2N4253	SM	1.60	1.00	
2N4254	SM	.90	.60	
2N4255	SM	.85	.57	
2N4300	SR	12.75	8.50	
2N4301	SR	58.50	39.00	
3N34	SG	5.00	4.15	
3N35	SG	22.50	15.00	
JAN 3N35 (MIL-S-19500/80D)	SG	24.38	16.25	
3N74/TI608	SM	15.60	10.40	
3N75	SM	13.50	9.03	
3N76/TI 609	SM	9.78	6.52	
3N77	SM	9.00	6.00	
3N78	SM	6.75	4.50	
3N79	SM	4.50	3.00	
3N108	SM	41.00	27.25	
3N109	SM	29.00	19.25	
3N110	SM	24.00	16.25	
3N111	SM	15.00	10.00	
600	SD	1.94	1.58	
601	SD	3.60	2.94	
604	SD	3.25	2.66	
606	SD	3.25	2.66	
608	SD	3.25	2.66	
610	SD	3.30	2.70	
612	SD	3.40	2.78	
614	SD	3.50	2.86	
616	SD	3.60	2.94	
618	SD	3.60	2.94	
620	SD	3.65	2.99	
622	SD	3.70	3.03	
624	SD	3.75	3.07	
650-653 ±10%	SZ	4.35	3.65	
650C0-655C9 ±5%	SZ	4.85	4.15	
Device No.	Type (Note 1)	1-10	11-99	100-999
A516	(GaAs)	30.00	25.00	20.00
A517	(GaAs)	35.00	30.00	25.00
Device No.	Type (Note 1)	1-99	100-999	
A543*	(GaAs)	270.00	221.00	
A580	SD	7.00	5.25	
A581	SD	11.00	7.50	
A582	SD	7.00	5.25	
A583	SD	13.00	10.00	
A584	SD	7.00	5.25	
A585	SD	15.00	12.50	
A586	SD	8.00	6.25	
A587	SD	13.00	10.00	
A588	SD	10.00	7.25	
A589	SD	17.00CF	13.00	
Device No.	Type (Note 1)	1-10	11-99	100-999
A600*	(GaAs)	180.00	139.00	—
A601*	(GaAs)	260.00	232.00	—
A602*	(GaAs)	340.00	320.00	—
A610	(GaAs)	180.00	139.00	—
A611	(GaAs)	260.00	232.00	—
A612	(GaAs)	340.00	320.00	—
Device No.	Type (Note 1)	1-24	25-99	100-999
2N3838	SM	30.15	26.13	20.10
Device No.	Type (Note 1)	1-99	100-999	
2N3846	SP	90.00	60.00	
2N3847*	SP	1000.00	950.00	
2N3848	SP	125.00	85.00	
2N3849*	SP	1000.00	950.00	
2N3909	SM	6.30	4.20	
2N3936	SCR	7.35	4.90	
2N3937	SCR	14.60	9.75	
2N3938	SCR	18.75	12.50	
2N3939	SCR	26.25	17.50	
2N3940	SCR	30.00	20.00	
2N3980	SM	7.35	4.90	
2N3993	SM	30.00	20.00	
2N3994	SM	26.10	16.80	
2N3995	GM	8.85	5.95	
2N3996	SP	42.00	28.00	

A660 - TI-408

Device No.	Type (Note 1)	1-99	100-999
A660	SI	1.00	.80
A670*	(GaAs)	17.50	14.00
A671*	(GaAs)	20.00	16.00
A706-3N*	SD	170.00	136.00
A706-4M*	SD	175.00	140.00
A706-5M*	SD	180.00	144.00
A706-6L*	SD	155.00	124.00
A706-7J*	SD	137.00	110.00
A706-8H*	SD	155.00	124.00
A707-3M*	SD	145.00	116.00
A707-4L*	SD	100.00	80.00
A707-5L*	SD	110.00	88.00
A707-6K*	SD	85.00	68.00
A707-7I*	SD	46.50	36.50
A707-8G*	SD	51.00	41.00
A708-3K*	SD	33.00	26.40
A708-4J*	SD	35.00	28.00
A708-5J*	SD	40.00	32.00
A708-6I*	SD	35.00	28.00
A708-7G*	SD	35.00	28.00
A708-8F*	SD	39.00	31.20
A709-3J*	SD	33.00	26.40
A709-4H*	SD	24.00	19.20
A709-5H*	SD	30.00	24.00
A709-6G*	SD	29.00	23.20
A709-7F*	SD	35.00	28.00
A709-8E*	SD	39.00	31.20
A710-3H*	SD	19.00	15.20
A710-4F*	SD	20.00	16.00
A710-5F*	SD	25.00	20.00
A710-6E*	SD	20.00	16.00
A710-7E*	SD	22.00	17.60
A710-8D*	SD	24.00	19.20
A711-3E*	SD	15.00	12.00
A711-4D*	SD	15.50	12.40
A711-5D*	SD	18.00	14.40
A711-6C*	SD	16.50	13.20
A711-7C*	SD	18.00	14.40
A711-8B*	SD	20.00	16.00
A712-3D*	SD	15.00	12.00
A712-4C*	SD	16.00	12.80
A712-5C*	SD	18.00	14.40
A712-6B*	SD	17.00	13.60
A712-7B*	SD	20.00	16.00
A712-8A*	SD	26.00	20.80
A713-3D*	SD	15.00	12.00
A713-4C*	SD	16.00	12.80
A713-5C*	SD	18.00	14.40
A713-6B*	SD	17.00	13.60
A713-7B*	SD	20.00	16.00
A713-8A*	SD	26.00	20.80
A900*	(GaAs)	56.00	—
A901*	(GaAs)	65.00	—
A902*	(GaAs)	81.00	—
A903*	(GaAs)	170.00	—
A905*	(GaAs)	108.00	—
A906*	(GaAs)	128.00	—
A907*	(GaAs)	280.00	—
A908*	(GaAs)	585.00	—
G01	SD	.85	.66
G02	SD	.60	.49
G129	SD	1.30	.85
G130	SD	1.30	.85
G222	SD	.75	.65
G296	SD	.85	.70
H-11	LS	4.00	2.80
H-35	LS	5.00	3.50
H-38	LS	4.00	2.80
H-60	LS	8.00	5.60
H-61	LS	9.00	6.25
H-62	LS	13.50	10.00
LS-221	LS	24.00	20.00
LS-222	LS	6.00	5.45
LS-400	LS	13.50	10.80
LS-500	LS	26.00	18.50
LS-600	LS	13.00	9.50
LSX-515	LS	14.95	11.30
Device No.	Type (Note 1)	1-24	25-99
LSX-900	LS	85.00	73.00

Type No.	Function	Qty. 1-99	
SNX110*	Gallium-arsenide IR Source	450.00 each	
PEX3002*	Multiplex Switch/Chopper	325.00 each	
PEX3003*	Multiplex Switch/Chopper	250.00 each	
Device No.	Type (Note 1)	1-99	100-999
T1 2(1N3593)	SD	.60	.40
T1 6	SD	.38	.31
T1 7	SD	.41	.34
T1 8	SD	.49	.40
T1 9	SD	.55	.46
Device No.	Type (Note 1)	1-99	100-999
T1 10	SD	.68	.56
T1 40A0	SCR	2.25	1.50
T1 40A1	SCR	2.40	1.60
T1 40A2 (T1 40)	SCR	2.70	1.80
T1 40A3	SCR	3.65	2.45
T1 40A4	SCR	5.55	3.70
T1 42	SCR	.87	.58
T1 43	SCR	1.02	.68
T1 51	SD	.39	.30
T1 52	SD	.44	.34
T1 53	SD	.47	.36
T1 54	SD	.57	.44
T1 55	SD	.65	.50
T1 56	SD	.73	.56
T1 57	SD	.81	.62
T1 58	SD	.88	.68
T1 59	SD	.96	.74
T1 60	SD	.99	.76
T1 66	SD	1.07	.85
T1 71	SD	.76	.65
T1 72	SD	.87	.74
T1 73	SD	1.03	.85
T1 74	SD	1.19	1.02
T1 75	SD	1.52	1.30
T1 116	SCR	12.00	8.00
T1 117	SCR	18.00	12.00
T1 118	SCR	30.00	20.00
T1 136	SCR	12.00	8.00
T1 137	SCR	18.00	12.00
T1 138	SCR	30.00	20.00
T1 145A0	SCR	2.25	1.50
T1 145A1	SCR	2.40	1.60
T1 145A2	SCR	2.70	1.80
T1 145A3	SCR	3.65	2.45
T1 145A4	SCR	5.50	3.70
T1 145A5	SCR	12.00	8.00
T1 156	GP	1.95	1.30
T1 156L	GP	2.25	1.50
T1 158	GP	2.40	1.60
T1 158A	GP	3.00	2.00
T1 158L	GP	2.62	1.75
T1 158AL	GP	3.30	2.20
T1 159	GP	3.00	2.00
T1 160	GP	3.90	2.60
T1 161	GP	5.85	3.90
T1 162	GP	7.65	5.10
T1 251	SD	.85	.70
T1 252	SD	.90	.75
T1 253	SD	.93	.78
T1 254 (1N4373)	SD	1.00	.82
T1 255	SD	1.25	1.00
T1 256	SD	1.37	1.05
T1 257	SD	1.56	1.28
T1 363	GC	.85	.57
T1 364	GC	.78	.52
T1 365	GC	1.50	1.00
T1 388	GC	1.20	.80
T1 389	GC	1.20	.80
T1 390	GC	2.04	1.36
T1 391	GC	1.85	1.23
T1 395	GC	1.41	.95
T1 397	GA	.92	.61
T1 398	GC	.87	.58
T1 399	GC	.87	.58
T1 400	GM	.89	.59
T1 401	GM	.71	.47
T1 402	GM	.71	.47
T1 403	GM	.72	.48
T1 407	SM	.73	.49
T1 408	SM	.69	.46

Device No.	Type (Note 1)	1-99	100-999	
TI 409	SM	.61	.41	
TI 480	SG	1.55	1.20	
TI 481	SG	1.90	1.45	
TI 482	SM	2.15	1.65	
TI 483	SM	2.40	1.85	
TI 484	SM	2.95	2.25	
TI 485	SM	3.25	2.50	
TI 486	SP	4.90	3.25	
TI 487	SP	5.60	3.75	
TI 492	SG	1.55	1.20	
TI 493	SG	1.90	1.45	
TI 494	SG	2.50	1.90	
TI 495	SG	3.00	2.30	
TI 496	SG	1.75	1.35	
TI 539	GP	7.65	5.10	
TI 540	GP	7.87	5.25	
TI 550 (Radiation Tolerant)	SD	8.60	6.50	
TI 551 (Radiation Tolerant)	SD	9.60	7.50	
TI 874	SG	4.20	2.70	
TI 1121	SP	18.00	12.00	
TI 1122	SP	16.30	10.85	
TI 1123	SP	14.30	9.55	
TI 1124	SP	12.70	8.45	
TI 1125	SP	9.50	6.35	
TI 1126	SP	8.65	5.75	
TI 1131	SP	18.15	12.25	
TI 1132	SP	16.65	11.10	
TI 1133	SP	14.70	9.80	
TI 1134	SP	13.05	8.70	
TI 1135	SP	9.90	6.60	
TI 1136	SP	9.00	6.00	
TI 1141	SP	22.20	14.80	
TI 1142	SP	20.40	13.60	
TI 1143	SP	19.95	13.30	
TI 1144	SP	17.40	11.60	
TI 1145	SP	14.85	9.90	
TI 1146	SP	12.75	8.50	
TI 1151	SP	22.95	15.30	
TI 1152	SP	21.15	14.10	
TI 1153	SP	19.70	13.80	
TI 1154	SP	18.15	12.10	
TI 1155	SP	15.60	10.40	
TI 1156	SP	13.50	9.00	
TI 3010	SCR	1.73	1.30	
TI 3011	SCR	1.93	1.45	
TI 3012	SCR	2.15	1.60	
TI 3013	SCR	2.93	2.20	
TI 3014	SCR	4.66	3.50	
Device No.	Type (Note 1)	1-24	25-99	100-999
TI 3016*	SM	480.00	400.00	265.00
Device No.	Type (Note 1)	1-99	100-999	
TI 3027	GP	1.35	.80	
TI 3028	GP	1.45	.95	
TI 3029	GP	1.65	1.10	
TI 3030	GP	1.90	1.25	
TI 3031	GP	2.05	1.35	
TI 3037	SCR	9.00	6.40	
TI 3038	SCR	10.00	7.00	
TI 3039	SCR	14.00	9.35	
TI 3040	SCR	19.00	13.50	
TI 3041	SCR	29.25	19.50	
TI 3042	SCR	44.65	29.75	
TI A01	GA	.47	.31	
TI A02	GA	.50	.33	
TI A03	GA	.35	.23	
TI A04	GA	.36	.24	
TI A05	GA	.32	.21	
Device No.	Type (Note 1)	1-24	25-99	100-999
TI C01	SCR	126.00	97.00	84.00
TI C02	SCR	156.00	124.00	103.00
TI C03	SCR	212.00	169.00	129.00
TI C04	SCR	239.00	188.00	157.00
TI C05	SCR	432.00	327.00	279.00

Device No.	Type (Note 1)	1-99	100-999		
TI C20	SCR	6.82	4.55		
TI C21	SCR	7.50	5.00		
TI C22	SCR	6.98	4.65		
TI C23	SCR	7.66	5.11		
TI C26	SCR	1.98	1.32		
TI C27	SCR	3.30	2.20		
TI C28	SCR	1.20	.85		
TI C29	SCR	1.35	.90		
TI C30	SCR	1.45	.98		
TI C31	SCR	2.75	1.95		
TI D11	SD	4.25	2.85		
TI D12	SD	4.00	2.60		
TI D13	SD	3.75	2.35		
TI D14	SD	3.50	2.10		
TI D15	SD	3.25	1.90		
TI D16	SD	2.35	1.80		
TI D31	SD	3.40	2.28		
TI D32	SD	3.00	1.95		
TI D33	SD	2.81	1.76		
TI D34	SD	2.63	1.58		
TI D35	SD	2.44	1.43		
TI D36	SD	1.76	1.35		
TI D37	SD	1.76	1.35		
TI P04	SP	10.75	7.95		
TI P14	SP	1.50	.95		
TI R01	SR	.64	.43		
TI R02	SR	.67	.45		
TI R03	SR	.69	.46		
TI R04	SR	.70	.47		
TI R05	SR	.72	.48		
TI R06	SR	.81	.54		
TI R07	SR	.97	.65		
TI R08	SR	1.20	.80		
TI R09	SR	1.95	1.30		
TI R10	SR	2.70	1.80		
TI R440	SR	12.75	8.50		
TI R441	SR	16.10	10.75		
TI R442	SR	20.25	13.50		
TI S05	SM	30.00	20.00		
TI S14*	SM	7.80	5.20		
TI S18*	SM	1.42	.95		
TI S22	SM	4.20	2.80		
TI S23	SM	4.65	3.10		
TI S24	SM	6.45	4.30		
TI S25	SM	34.60	22.50		
TI S26	SM	32.70	21.80		
TI S27	SM	30.15	20.50		
TI S43	SM	1.08	.72		
TI V300	SD	1.00	.80		
TI V301	SD	1.00	.80		
TI V302	SD	1.25	1.00		
TI V303	SD	1.25	1.00		
TI V305	SP	3.25	1.75		
TIX 895*	GM	99.50	66.33		
Device No.	Type (Note 1)	1-24	25-99	100-999	
TIX 3016A	SM	50.00	43.50	29.00	
Device No.	Type (Note 1)	1-99	100-999		
TIX 3024	GM	52.50	35.00		
TIX 3032	GM	22.00	14.70		
Device No.	Type (Note 1)	1-9	10-99	100-499	500-999
TIX D17	SD	4.38	2.92	2.10	1.60
TIX D18	SD	3.10	2.05	1.50	1.15
TIX D19	SD	4.38	2.92	2.10	1.60
TIX D20	SD	3.10	2.05	1.50	1.15
TIX D21	SD	25.00	16.80	12.10	9.15
TIX D22	SD	22.50	15.00	11.00	8.25
TIX D23	SD	25.00	16.80	12.10	9.15
TIX D24	SD	22.50	15.00	11.00	8.25
TIX D25	SD	54.00	36.00	26.20	20.00
TIX D26	SD	46.50	31.00	22.50	17.10
TIX D29	SD	71.00	47.00	34.40	26.20
TIX D30	SD	61.00	41.00	29.50	22.40

TIX D40 - A10-31-052-007 (354001-100)

Device No.	Type (Note 1)	1-99	100-999
▶ TIX D40	SD	2.32	1.74
▶ TIX D41	SD	2.10	1.58
▶ TIX D42	SD	2.20	1.65
▶ TIX D43	SD	2.44	1.83
▶ TIX D44	SD	2.56	1.92
TIX D746-TIX D759	SD	3.20	2.70
TIX L01	LS	26.00	19.00
TIX L02 (SNX 100)	LS	49.50	38.00

Device No.	Type (Note 1)	1-24	25-99	100-999
▶ TIX L03 (SNX 110)	LS	225.00	180.00	159.00

Device No.	Type (Note 1)	1-99	100-999
TIX L101	LS	42.00	34.00
TIX M01	GM	.51	.34
TIX M02	GM	.46	.31
TIX M03	GM	.39	.26
TIX M04	GM	.48	.32

TIX M05	GM	.52	.35
TIX M06	GM	.49	.33
TIX M07	GM	.39	.26
TIX M08	GM	.51	.34
TIX M101	GM	19.00	12.65

▶ TIX M103	GM	82.50	55.00
▶ TIX M104	GM	52.50	35.00
TIX M201	GM	.47	.31
TIX M202	GM	.41	.27
TIX M203	GM	.39	.26

TIX M204	GM	.41	.27
TIX M205	GM	.38	.25
TIX M206	GM	.38	.25
TIX M207	GM	.45	.30
▶ TIX M301	GM	12.90	8.60

TIX P07	SP	85.00	59.90
TIX S05	SM	30.00	20.00

Device No.	Type (Note 1)	1-24	25-99	100-999
TIX S09	SM	35.00	29.40	19.66
TIX S10	SM	15.00	11.85	7.90

Device No.	Type (Note 1)	1-99	100-999
TIX S11	SM	20.00	13.35
TIX S33	SM	33.60	22.50
TIX S34	SM	4.50	2.80
TIX S35	SM	39.30	26.50
TIX S36	SM	36.30	24.50

▶ TIX S37	SM	.88	.59
▶ TIX S38	SM	.83	.55
▶ TIX S39	SM	8.25	5.50
TIX S39	SM	8.25	5.50
TIX S40	SM	15.00	10.00

▶ TIX S41	SM	19.90	13.35
▶ TIX S42	SM	7.95	6.50

Device No.	Type (Note 1)	1-24	25-99	100-999
▶ TIX S12	SM	155.00	128.00	105.00
▶ TIX S13	SM	125.00	100.00	85.00

Device No.	Type (Note 1)	1-9	10-99	100-999
TIX V01	(GaAs)	125.00	100.00	90.00
TIX V02	(GaAs)	150.00	120.00	100.00
TIX V03	(GaAs)	225.00	200.00	175.00
TIX V04	(GaAs)	525.00	475.00	375.00
TIX V05*	(GaAs)	425.00	---	---
TIX V06*	(GaAs)	500.00	---	---
TIX V07*	(GaAs)	575.00	---	---

Device No.	Type (Note 1)	1-99	100-999
U212	SR	.45	.30
U213	SR	.63	.42
U214	SR	.90	.60
UG40	SD	1.00	.82

Device No.	Type (Note 1)	1-99	100-999
▶ XD500	(GaAs)	136.00	112.00
▶ XD501	(GaAs)	224.00	192.00
▶ XD502	(GaAs)	320.00	263.00
▶ XD543	(GaAs)	280.00	240.00

Mounting Hardware

Device No.	1-99	100-999
A10-21-120-001 (70318-1)	.15	.05
A10-21-120-017	.15	.05
A10-31-052-006 (354001-99)	.15	.10
A10-31-052-007 (354001-100)	.15	.10

**TI TYPE ECM
MOLDED SOLID TANTALUM CAPACITOR**

PRICES

Size	1-24	25-99	100-499	500-999
Size W				
±10%	.63	.53	.43	.35
±20%	.60	.50	.40	.32
-10%+50	.54	.40	.30	.24
Size X				
±10%	.65	.55	.45	.37
±20%	.62	.52	.42	.34
-10%+50	.57	.42	.32	.27

D-C Working Voltage, V _{wkg}	3	6	10	15	20	25	35	v
---------------------------------------	---	---	----	----	----	----	----	---

Nominal Capacitance Ranges	Size W 0.1-8.0	0.1-8.0	0.1-5.0	0.1-3.3	0.1-2.2	0.1-2.0	0.1-1.0	μf
----------------------------	----------------	---------	---------	---------	---------	---------	---------	----

(See table of standard values below)	Size X 10-100	10-50	6-33	4-22	3-15	2.2-10	1.5-6.8	μf
--------------------------------------	---------------	-------	------	------	------	--------	---------	----

STANDARD CAPACITANCE VALUES (IN μf) AT 25°C AMBIENT TEMPERATURE†

±10% and ±20% Tolerances			+50%/-10% Tolerance		
0.10	1.0	10	1	6	25
0.15	1.5	15	2	8	35
0.22	2.2	22	3	10	50
0.33	3.3	33	4	15	75
0.47	4.7	47	5	20	100
0.68	6.8	---	---	---	---

SOLID TANTALUM CAPACITOR
TYPE SCM
OEM Price Schedule Effective 8-1-65

Table I below shows the available capacitance values by voltage rating and the corresponding price code. Capacitance is expressed in microfarads (μf). Voltage is rated working volts to 85°C. Use Table I to select the price code; then go to Table II for prices. Prices shown in Table II are for standard SCM, $\pm 20\%$ tolerance, and WITH insulating sleeve. See below for a complete Standard Part list of all available SCM type numbers and their corresponding capacitance and voltage ratings.

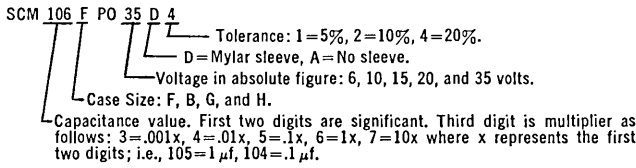
TABLE I

Price Code	6 Volts	10 Volts	15 Volts	20 Volts	35 Volts	Case Size
F-1	—	—	—	—	.033-.0047	F
F	1.0-6.8	1.0-4.7	1.0-3.3	1.0-2.2	.039-1.0	F
B	8.2-56	5.6-39	3.9-22	2.7-15	1.2-6.8	B
G	68-180	47-120	27-68	18-47	—	G
G-1	—	—	—	—	8.2-22	G
H	220-330	150-220	82-150	56-120	—	H
H-1	—	—	—	—	27-47	H

TABLE II

Price Code	1-24 pcs	25-49 pcs	50-99 pcs	100-499 pcs	500-999 pcs	1K Up
F-1	\$1.30	\$1.04	\$.71	\$.58	\$.43	\$.41
F	1.30	1.04	.71	.58	.43	.26
B	1.53	1.23	.73	.60	.45	.28
G	2.19	1.97	1.32	1.08	.81	.57
G-1	2.53	2.03	1.38	1.12	.85	.57
H	4.46	3.52	2.30	1.87	1.41	1.06
H-1	4.71	3.77	2.77	2.25	1.69	1.38

Specifying and Interpreting SCM Type Numbers



Pricing Notes

1. For $\pm 10\%$ tolerance, add \$.03 per unit.
2. Deduct \$.01 if insulating sleeve NOT desired.
3. Contact Dallas for pricing on special capacitance values and tolerances.
4. See below for specifying and interpreting SCM type numbers.

Complete List of Standard Part Numbers

Capacitance Rating μf	6 Volts at 85°C	10 Volts at 85°C	15 Volts at 85°C	20 Volts at 85°C	35 Volts at 85°C	35 Volts at 85°C	Capacitance Rating μf
	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.	Catalog No.	
.56					SCM564FP035D2	SCM472FP035D2	.047
.68					SCM684FP035D2	SCM562FP035D2	.056
.82					SCM824FP035D2	SCM682FP035D2	.068
1.0	SCM105FP006D2	SCM105FP010D2	SCM105FP015D2	SCM105FP020D2	SCM105FP035D2	SCM822FP035D2	.082
1.2	SCM125FP006D2	SCM125FP010D2	SCM125FP015D2	SCM125FP020D2	SCM125BP035D2	SCM103FP035D2	.010
1.5	SCM155FP006D2	SCM155FP010D2	SCM155FP015D2	SCM155FP020D2	SCM155BP035D2	SCM123FP035D2	.012
1.8	SCM185FP006D2	SCM185FP010D2	SCM185FP015D2	SCM185FP020D2	SCM185BP035D2	SCM153FP035D2	.015
2.2	SCM225FP006D2	SCM225FP010D2	SCM225FP015D2	SCM225FP020D2	SCM225BP035D2	SCM183FP035D2	.018
2.7	SCM275FP006D2	SCM275FP010D2	SCM275FP015D2	SCM275BP020D2	SCM275BP035D2	SCM223FP035D2	.022
3.3	SCM335FP006D2	SCM335FP010D2	SCM335FP015D2	SCM335BP020D2	SCM335BP035D2	SCM273FP035D2	.027
3.9	SCM395FP006D2	SCM395FP010D2	SCM395BP015D2	SCM395BP020D2	SCM395BP035D2	SCM333FP035D2	.033
4.7	SCM475FP006D2	SCM475FP010D2	SCM475BP015D2	SCM475BP020D2	SCM475BP035D2	SCM393FP035D2	.039
5.6	SCM565FP006D2	SCM565BP010D2	SCM565BP015D2	SCM565BP020D2	SCM565BP035D2	SCM473FP035D2	.047
6.8	SCM685FP006D2	SCM685BP010D2	SCM685BP015D2	SCM685BP020D2	SCM685BP035D2	SCM563FP035D2	.056
8.2	SCM825BP006D2	SCM825BP010D2	SCM825BP015D2	SCM825BP020D2	SCM825GP035D2	SCM683FP035D2	.068
10	SCM106BP006D2	SCM106BP010D2	SCM106BP015D2	SCM106BP020D2	SCM106GP035D2	SCM823FP035D2	.082
12	SCM126BP006D2	SCM126BP010D2	SCM126BP015D2	SCM126BP020D2	SCM126GP035D2	SCM104FP035D2	.10
15	SCM156BP006D2	SCM156BP010D2	SCM156BP015D2	SCM156BP020D2	SCM156GP035D2	SCM124FP035D2	.12
18	SCM186BP006D2	SCM186BP010D2	SCM186BP015D2	SCM186GP020D2	SCM186GP035D2	SCM154FP035D2	.15
22	SCM226BP006D2	SCM226BP010D2	SCM226BP015D2	SCM226GP020D2	SCM226GP035D2	SCM184FP035D2	.18
27	SCM276BP006D2	SCM276BP010D2	SCM276GP015D2	SCM276GP020D2	SCM276HP035D2	SCM224FP035D2	.22
33	SCM336BP006D2	SCM336BP010D2	SCM336GP015D2	SCM336GP020D2	SCM336HP035D2	SCM274FP035D2	.27
39	SCM396BP006D2	SCM396BP010D2	SCM396GP015D2	SCM396GP020D2	SCM396HP035D2	SCM334FP035D2	.33
47	SCM476BP006D2	SCM476GP010D2	SCM476GP015D2	SCM476GP020D2	SCM476HP035D2	SCM394FP035D2	.39
56	SCM566BP006D2	SCM566GP010D2	SCM566GP015D2	SCM566GP020D2		SCM474FP035D2	.47
68	SCM686GP006D2	SCM686GP010D2	SCM686GP015D2	SCM686HP020D2			
82	SCM826GP006D2	SCM826GP010D2	SCM826HP015D2	SCM826HP020D2			
100	SCM107GP006D2	SCM107GP010D2	SCM107HP015D2	SCM107HP020D2			
120	SCM127GP006D2	SCM127GP010D2	SCM127HP015D2	SCM127HP020D2			
150	SCM157GP006D2	SCM157HP010D2	SCM157HP015D2				
180	SCM187GP006D2	SCM187HP010D2					
220	SCM227HP006D2	SCM227HP010D2					
270	SCM277HP006D2						
330	SCM337HP006D2						

- Notes: 1. The above SCM type numbers cover $\pm 10\%$ tolerance and insulating sleeve.
 2. For $\pm 20\%$ tolerance, change last digit from 2 to 4.
 3. For insulated device, change second to last digit from D to A.

sensistor[®] SILICON RESISTORS

Engineering Design Kit (22 values 10 ohms - 10K) \$49.50 ea.

	1-49	50-249	250-499	500-999	1000-4999
Type TM 1/8—Ohmic Range: 10 ohms to 5.6K					
Standard values, ± 10% tolerance	\$5.00	\$4.50	\$4.00	\$3.20	\$2.80
Nonstandard values, ± 10% tolerance	6.00	5.20	4.40	3.50	3.10
Standard values, ± 5% tolerance	6.00	5.20	4.40	3.50	3.10
Nonstandard values, ± 5% tolerance	6.50	5.65	4.80	3.85	3.40
Type TM 1/4—Ohmic Range: 10 ohms to 10K					
Standard values, ± 10% tolerance	4.00	3.50	3.00	2.50	2.20
Nonstandard values, ± 10% tolerance	4.80	4.05	3.30	2.75	2.40
Standard values, ± 5% tolerance	4.80	4.05	3.30	2.75	2.40
Nonstandard values, ± 5% tolerance	5.20	4.40	3.60	3.00	2.70
Type TC 1/8—Ohmic Range: 10 ohms to 5.6K					
Standard values, ± 10% tolerance	5.00	4.50	4.00	3.20	2.80
Nonstandard values, ± 10% tolerance	6.00	5.20	4.40	3.50	3.10
Standard values, ± 5% tolerance	6.00	5.20	4.40	3.50	3.10
Nonstandard values, ± 5% tolerance	6.50	5.65	4.80	3.85	3.40

STANDARD RESISTANCE VALUES IN OHMS

10	27	56	150	390	820	2200	5000
12	33	68	180	470	1000	2700	5600
15	39	82	220	500	1200	3300	6800
18	47	100	270	560	1500	3900	8200
22	50	120	330	680	1800	4700	10000

	1-24	25-99	100-999	1000- & Up
P-100 PROBE*				
100 ohms, 500 ohms, 1K, 2K or 4K ± 10% tolerance	\$16.00	\$12.00	\$8.00	\$7.20
100 ohms, 500 ohms, 1K, 2K or 4K ± 5% tolerance	19.20	14.40	9.60	8.64

MM MOLDED PRECISION METAL-FILM RESISTORS

MIL-BELL STANDARD RESISTANCE VALUES ONLY. ADD 10% TO STANDARD PRICE FOR NONSTANDARD RESISTANCE VALUES.

RESISTANCE RANGE ± 1% TOLERANCE	1-24	25-99	100-249	250-499	500-999	1000-4999
Type MM60 (RN60C per MIL-R-10509E) 1/4 Watt (0.400" long x 0.135" diameter)						
T-2: ±50 ppm/°C—Characteristic C 49.9 ohms - 499 K	\$1.31	\$.70	\$.39	\$.35	\$.31	\$.30
T-9: ±25 ppm/°C 49.9 ohms - 499 K	2.97	1.78	1.10	1.04	.99	.95
Type MM65 (RN65C, E & F per MIL-R-10509E) 1/4 Watt (0.575" long x 0.200" diameter)						
T-2: ±50 ppm/°C—Characteristic C&F 49.9 ohms - 1 meg	1.31	.70	.39	.35	.31	.30
T-9: ±25 ppm/°C—Characteristic E 95.3 ohms - 348 K	2.97	1.78	1.10	1.04	.99	.95
T-9: ±25 ppm/°C 49.9 ohms - 1 meg	2.97	1.78	1.10	1.04	.99	.95
Type MM70 (RN70C & E per MIL-R-10509E) 1/2 Watt (0.750" long x 0.250" diameter)						
T-2: ±50 ppm/°C—Characteristic C 24.9 ohms - 1 meg	1.31	.70	.39	.35	.31	.30
T-9: ±25 ppm/°C—Characteristic E 24.9 ohms - 1 meg	2.97	1.78	1.10	1.04	.99	.95

*Commercial designations only

MC COATED PRECISION METAL-FILM RESISTORS

MIL-BELL STANDARD RESISTANCE VALUES ONLY. ADD 10% TO STANDARD PRICE FOR NONSTANDARD RESISTANCE VALUES.

RESISTANCE RANGE ± 1% TOLERANCE	1-24	25-99	100-249	250-499	500-999	1000-9999
Type MC55 (RN55C, D & E per MIL-R-10509E) 1/4 Watt (0.250" long x 0.095" diameter)						
T-0: ±150 ppm/°C—Characteristic D 28 ohms - 100 K	.85	.44	.30	.17	.16	.14
T-2: ±50 ppm/°C—Characteristic C 49.9 ohms - 100 K	1.31	.70	.39	.35	.31	.30
T-9: ±25 ppm/°C—Characteristic E 49.9 ohms - 100 K	2.97	1.78	1.10	1.04	.99	.95
Type MC60 (RN60C, D & E per MIL-R-10509E) 1/4 Watt (0.375" long x 0.140" diameter)						
T-0: ±150 ppm/°C—Characteristic D 28 ohms - 499 K	.85	.44	.30	.17	.16	.14
T-2: ±50 ppm/°C—Characteristic C 49.9 ohms - 499 K	1.31	.70	.39	.35	.31	.30
T-9: ±25 ppm/°C—Characteristic E 49.9 ohms - 499 K	2.97	1.78	1.10	1.04	.99	.95
Type MC65 (RN65C, D, E & F per MIL-R-10509E) 1/2 Watt (0.575" long x 0.171" diameter)						
T-0: ±150 ppm/°C—Characteristic D 15 ohms - 1 meg	.85	.44	.30	.17	.16	.14
T-2: ±50 ppm/°C—Characteristic C & F 49.9 ohms - 1 meg	1.31	.70	.39	.35	.31	.30
T-9: ±25 ppm/°C—Characteristic E 49.9 ohms - 1 meg	2.97	1.78	1.10	1.04	.99	.95

**FIGURE 1
AVAILABLE METAL FILM TEMPERATURE COEFFICIENTS**

CODE	TC SPAN	TEMPERATURE SPAN
T-2	±50 ppm/°C	-55°C to +175°C
T-9	±25 ppm/°C	-55°C to +175°C

Prices as listed are for ±1% tolerance.

TABLE OF EXCEPTIONS

	1-24	25-99	100-999	1000- & Up
For tolerances of	0.10%	\$.50	\$.40	\$.25
	0.25%	.35	.30	.20
	0.50%	.20	.15	.10
For tolerances of ±2% deduct 5%—±5% deduct 10%				

MIL TOLERANCE DESIGNATIONS

- ± 1% -- F
- ± 0.5% -- D
- ± 0.25% -- C
- ± 0.10% -- B

GENERAL PURPOSE DEPOSITED CARBON FILM RESISTORS

5% Tolerance

(PRICES PER THOUSAND PIECES)

Wattage Size	Type	Ohmic Range	Body Length	Body Diameter	Lead Diam. ±.002"	1K	QUANTITY 5K	10K
¼ watt	GP¼	10 ohms - 301K	.250" ± .031"	.090" ± .008"	.025"	\$ 56.50	\$ 54.00	\$ 52.00
½ watt	GP½	10 ohms - 1.0M	.375" ± .031"	.150" ± .010"	.032"	48.00	45.00	43.00
1 watt	GP1	10 ohms - 1.0M	.530" ± .040" .030"	.160" ± .015"	.040"	61.50	57.75	54.00
2 watt	GP2	10 ohms - 2.0M	.720" ± .025"	.235" ± .015"	.046"	109.00	100.00	97.00

E.I.A. Decade Table

Tolerances G (±2%), J (±5%)

10 11 12 13 15 16 18 20 22 24 27 30 33 36 39 43 47 51 56 62 68 75 82 91

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Logic	Propagation Delay (Typical)	Fan-Out	D-c Noise Margin (Guaranteed)
Series 54 TTL	13 nsec	10	400 mV
930-series DTL	25 nsec	8	350 mV

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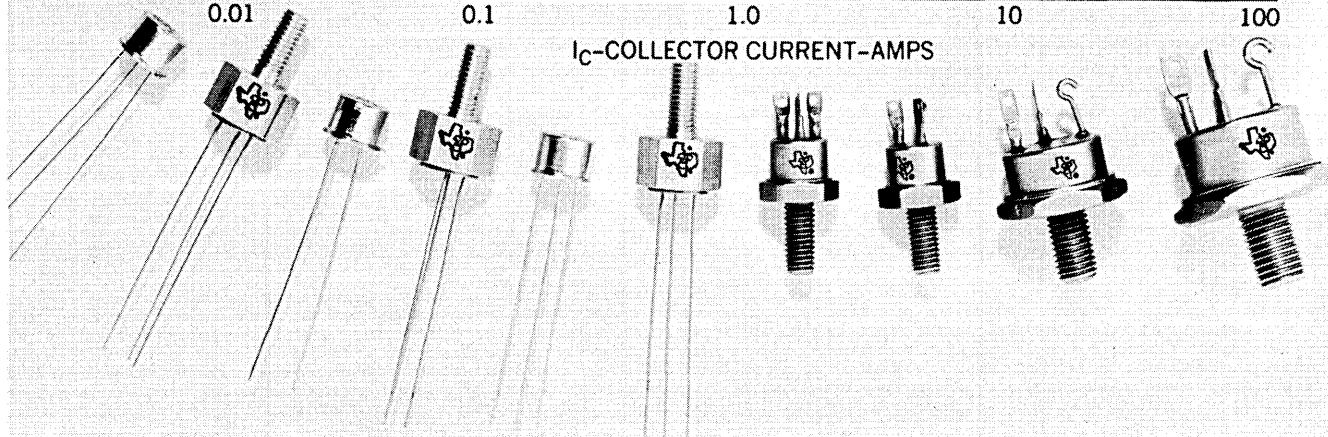
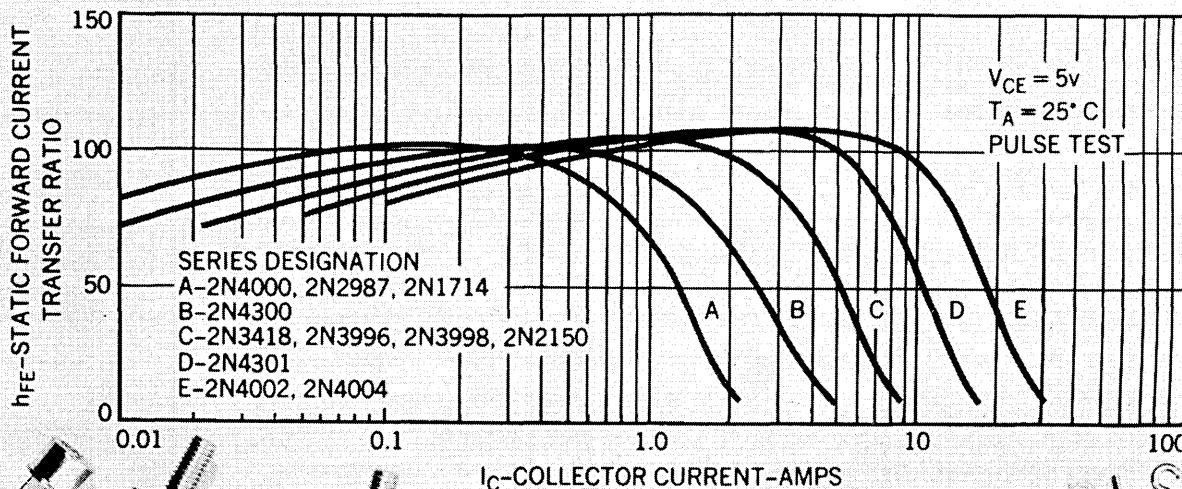
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NEW 2-amp 2N4300 This transistor is offered in a high-dissipation TO-5 package rated at 15 watts at 100°C case temperature. A press-on stud is optionally available. Saturation voltage is exceptionally low (0.5 volts maximum at 2 amps), assuring low internal losses for increased circuit efficiency. Gain is linear from 50 milliamps to 1 amp (h_{FE} is typically 70 at both levels), making the device well suited to amplifier applications. Fast switching characteristics ($t_{on} = 150$ nsec, $t_{off} = 1.5$ μ sec typical at 1 amp) make the 2N4300 ideal for high-speed, medium-power circuits and switching regulators.

Typical applications include servo and relay control amplifiers, audio amplifiers, converters and power supply regulators.

NEW 10-amp 2N4301 This new transistor is packaged in a TO-61 case offering a power dissipation of 50 watts at 100°C case temperature. Operating characteristics include extremely low saturation voltage (0.5 volts typical at 10 amps), high gain at high current ($h_{FE} = 30$ typical at 10 amps), and high frequency response ($f_T = 40$ MHz min). Drive power requirements are low ($V_{BE} = 1.2$ volts max at 10 amps), permitting use of low-power driver stages with the possibility of eliminating an intermediate stage.

These transistors are well suited for switching and linear power supply regulators, converters, inverters, servo amplifiers, and linear power amplifiers.

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