

### Operational Amplifiers

Mr.'s Type		Description	VCC (V)	DC Voltage Gain (dB)	Input Offset Voltage Typical (mV)	Input Offset Current Typical (nA)	Common-mode Rejection Ratio (dB)	Unity Gain Bandwidth (MHz)	Slew Rate (V/μs)	No of Leads
SOIC	PDIP									
NE5534AD — NE5534D — NE5230D — — LM324D —	NE5534AN NE5534N — NE5532AN — — NE532N — — LM324N —	Single Low Noise Single Low Noise Single Low Voltage Single Low Voltage Dual Internally Compensated Low Noise Dual Internally Compensated Low Noise Dual Low Power Dual Low Power Dual Operational Transconductance Amp Quad Low Power Quad Low Power	±22 ±22 1.8 to 15 or ±9 1.8 to 15 or ±9 ±22 ±22 ±32 or ±16 ±32 or ±16 ±36 or ±18 ±32 or ±16 ±32 or ±16	100000 100000 — — 50000 50000 100 100 — 100 100	0.5 0.5 0.4 0.4 0.5 0.5 ±2.0 ±2.0 0.4 ±2.0 ±2.0	20.0 20.0 3.0 3.0 10.0 10.0 ±5.0 ±5.0 0.1 μA ±5.0 ±5.0	100 100 95 95 100 100 70 70 110 70 85	10.0 10.0 — — 10.0 10.0 1.0 1.0 — 1.0 1.0	13.00 13.00 0.25 0.25 9.00 9.00 0.30 0.30 50.00 0.30 0.30	8 8 8 8 8 8 8 8 16 8 14

### Comparators

Mr.'s Type	Complexity	Max. Input Offset Voltage (mV)	Max. Input Current		Supply Voltage (V)	Response Time (ns)	Voltage Range (V)	Voltage Gain (V/mV)	TTL Fanout	No. of Leads
			Bias (μA)	Offset (μA)						
LM311N LM319N LM393AN LM393N LM2903N NE521N LM339AN LM339N	Single Dual Dual Dual Dual Dual Quad Quad	7.5 10.0 4.0 9.0 15.0 15.0 4.0 9.0	0.25 1.20 0.40 0.40 0.50 40.00 0.40 0.40	0.05 0.30 0.15 0.15 0.20 12.00 0.15 0.15	±15 or +5 ±15 or +5 ±1 to ±18 or +2 to +36 ±1 to ±18 or +2 to +36 5 -5 or +5 ±1 to ±18 or +2 to +36 ±1 to ±18 or +2 to +36	200 80 1300 1300 1300 8 1300 1300	-14.5/+13 ±13 0 to Vs-2 0 to Vs-2 0 to Vs-2 +3 0 to Vs-2 0 to Vs-2	200 40 200 200 100 — 200 200	5 2 2 2 2 12 2 2	8 14 8 8 8 14 14 14

### Compandors

Mr.'s Type	Vcc (V)	Icc (mA)	ALC	Reference Voltage	Unity Gain	Power Down	Key Features		No. of Leads
							SOIC	PDIP	
NE570D —	6 to 24 6 to 18	3.2 3.2	Both Channels Both Channels	Fixed 1.8 V Fixed 1.8 V	775 mVRms 775 mVRms	No No	Excellent Unity Gain Tracking Error Excellent Unity Gain Tracking Error		16 16

### FM IF Systems

#### High Performance Low Power FM IF System

Mr.'s Type	VCC (V)	ICC (mA)	Max. Input Frequency (MHz)	Max. IF Frequency (MHz)	f <sub>IF</sub> = 45 MHz			RSSI Range (dB)	Fast RSSI	Output Op. Amps	No. of Leads
					Sensitivity Input	Power Gain	Input 3OI				
SA604AD —	4.5 to 8 4.5 to 8	3.3 @ 6 V 3.3 @ 6 V	25	25	0.22 μV 0.22 μV	—	—	90 80	—	—	16 16

### Integrated Mixer Systems

#### Integrated Mixer Systems (Mixer + Oscillator), f<sub>r</sub> = 45 MHz

Mr.'s Type	VCC (V)	ICC (mA)	Bandwidth		Noise Figure		1 dB Compression (Output)		3rd Order Intercept (Output)		Input Impedance		Output Impedance (Ω)	Power Gain		No. of Leads
			LNA (MHz)	Mixer (GHz)	LNA (dB)	Mixer (dB)	LNA (dBm)	Mixer (dBm)	LNA (dBm)	Mixer (dBm)	LNA (Ω)	Mixer (Ω)		LNA (dB)	Mixer (dB)	
SA602AD —	SA602AN SA612AN	4.5 to 8 4.5 to 8	2.4 2.4	— 500	500	5	—	-10 -10	— —	-13 -13	— —	1.5 K 1.5 K	1.5 K 1.5 K	— —	17 17	8 8

### Timers

Mr.'s Type	Vcc Max. (V)	Description	Output Voltage (Low) (V)	Output Voltage (High) (V)	I <sub>our</sub> Max. (mA)	Output Rise Time (ns)	Output Fall Time (ns)	Oscillator Frequency (kHz)	No. of Leads	
NE558D —	NE555N NE556N NE558N	General Purpose Dual General Purpose Quad General Purpose	16 16 16	0.1 — —	12.5 12.5 —	— — —	100 100 100	100 100 500	500 500 —	8 14 16

### Relay/Peripheral Drivers

Mr.'s Type	Description	No. of Drivers	Supply Voltage (V)	Input Voltage (V)	Output Voltage (V)	Output Current/Output (mA)	No. of Leads
NE5090N NE590N	Addressable Relay Driver Addressable Peripheral Driver	8	-0.5 to +7 -0.5 to +7	-0.5 to +15 -0.5 to +15	0 to +30 0 to +7	200 300	16 16

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