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## MC3303 MC3403 - MC3503

### LOW POWER QUAD BIPOLAR OPERATIONAL AMPLIFIERS

- SHORT-CIRCUIT PROTECTED OUTPUTS
- CLASS AB OUTPUT STAGE FOR MINIMAL CROSSOVER DISTORTION
- SINGLE SUPPLY OPERATION: +3V TO +36V
- DUAL SUPPLIES:  $\pm 15\text{V}$  TO  $\pm 18\text{V}$
- LOW INPUT BIAS CURRENT: 500nA MAX
- INTERNALLY COMPENSATED
- SIMILAR PERFORMANCE TO POPULAR UA741

#### DESCRIPTION

The MC3403 is a low-cost, quad operational amplifier with true differential inputs. The device has electrical characteristics similar to the popular UA741. However the MC3403, has several distinct advantages over standard operational amplifiers types in single supply applications. The quad amplifier can operate at supply voltage as low as 3 Volts or as high as 36 volts with quiescent currents about one third of those associated with the UA741 (on a per amplifier basis). The common-mode input range includes the negative supply, thereby eliminating the necessity for external biasing components in many applications.

#### ORDER CODE

Part Number	Temperature Range	Package		
		N	D	P
MC3303	-40°C, +105°C	•	•	•
MC3403	0°C, +70°C	•	•	•
MC3503	-55°C, +125°C	•	•	•

Example : MC3403N

N = Dual in Line Package (DIP)  
 D = Small Outline Package (SO) - also available in Tape & Reel (CT)  
 P = Thin Shrink Small Outline Package (TSSOP) - only available in Tape & Reel (PT)



#### PIN CONNECTIONS (top view)

