

Precision Shunt Reference Solutions: LM404x and TL43x/TLV43x/TLVH43x



LM4040, LM4041

The Texas Instruments (TI) LM404x series of shunt voltage references are versatile, easy-to-use references for a vast array of applications, including data-acquisition systems, power supplies and power-supply monitors, instrumentation and test equipment, and battery-powered portable electronics. These shunt voltage references require no external capacitors for operation and are stable with all capacitive loads. Additionally, the reference offers low dynamic impedance, low noise and a low temperature coefficient to ensure a stable output voltage over a wide range of operating current and temperatures.

0.1%	LM4041A	LM4041A12	LM4040A20	LM4040A25	LM4040A30	LM4040A41	LM4040A50	LM4040A82*	LM4040A10*
0.2%	LM4041B	LM4041B12	LM4040B20	LM4040B25	LM4040B30	LM4040B41	LM4040B50	LM4040B82*	LM4040B10*
0.5%	LM4041C	LM4041C12	LM4040C20	LM4040C25	LM4040C30	LM4040C41	LM4040C50	LM4040C82*	LM4040C10*
1.0%	LM4041D	LM4041D12	LM4040D20	LM4040D25	LM4040D30	LM4040D41	LM4040D50	LM4040D82*	LM4040D10*
	Adjustable	1.225V	2.048V	2.5V	3.0V	4.096V	5.0V	8.192V	10V

*Planned release in 2Q06.

Device	V _{KA} (V)	25°C Accuracy Max (%)	Tempco Typ/Max (ppm/°C)	I _{KA} Range (mA)	Packages
LM4040	2.048 2.5 3.0 4.096 5.0 8.192* 10*	A = 0.1 B = 0.2 C = 0.5 D = 1	A, B, C Grades: 15/100 D Grade: 15/150	0.045 (typ) to 15	SOT23-3, SC-70
LM4041	1.225 Adj: 1.225 to 10			0.045 (typ) to 12	

*Planned release in 2Q06.

Packages and Pinouts



