High Value Precision SIP

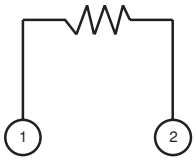
FEATURES

- High nominal ultra precision resistor (Value range 50K-10M).
- Highly accurate resistance tolerance to ± 0.01%
- Conformal coating flame resistant (UL94V-) Rating)
- Ultra low TCR ± 5 ppm/°C

APPLICATIONS

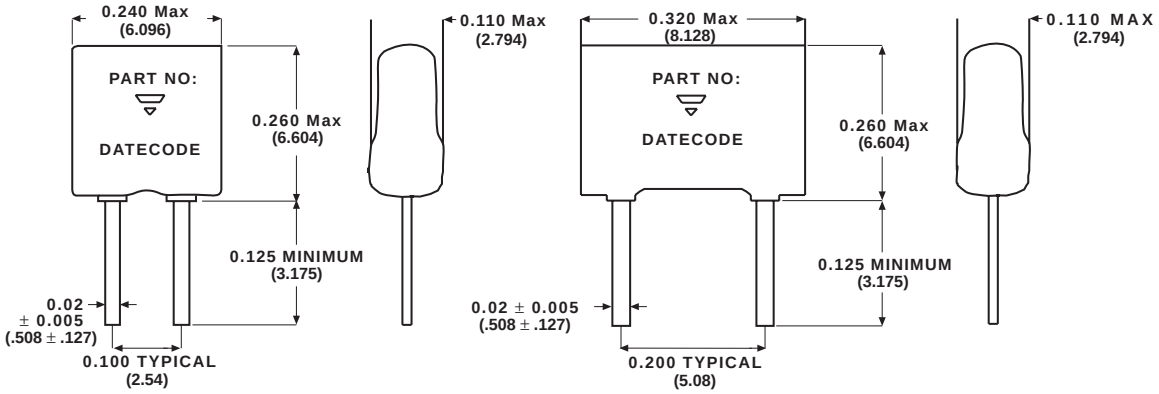
- Precise Instrumentation (Medical, Test etc).
- Precision Amplifers

SCHEMATIC



STANDARD ELECTRICAL SPECIFICATIONS		
TEST	**SPECIFICATIONS**	**CONDITIONS**
MATERIAL	**TAMELOX**	
Resistance Range	HVPS1 50K to 5M Ohms HVPS2 100K to 10M Ohms	
TCR	5, 10, 15, 25 ppm/°C	- 55°C to + 125°C
Tolerance	0.01%, 0.02%, 0.05% 0.10%, 0.50%, 1.0%	+ 25°C
Power Rating	HVPS1 0.125 W HLPS2 0.250 W	Max @ + 70°C Max @ + 70°C
Stability	500 ppm	2000 hours @ +70°C
Voltage Coefficient	< 1.0 ppm/Volt	
Working Voltage	HVPS1 250 Volts HLPS 2 300 Volts	
Operating Temperature Range	- 55°C to + 125°C	
Noise	< - 30 db	
Thermal EMF	< 0.1 micro volt/°C	
Shelf Life Stability	< 100 ppm	1 Year @ + 25°C

DIMENSIONS AND IMPRINTING in inches (millimeters)



STANDARD ELECTRICAL SPECIFICATIONS	
Resistive Elements	TAMELOX(Passivated Nichrome)
Substrate Material	99.6% Alumina
Body	Epoxy
Terminals	Copper with Nickel barrier
Plating	SN 60
Marking Resistance to Solvents	Per MIL-PRF-83401

How to Order

Series	TCR ± (ppm/°C)	Resistance Value	Tolerance ± (%)
HVPS1 (100 mil Pin Spacing) **HVPS2** (200 mil Pin Spacing)	**E** = 25 **D** = 15 **Y** = 10 **Z** = 5	4 digits. The first 3 digits are significant figures and the last digit specifies the number of zeros to follow HVPS1 = 50K to 5M ohms HVPS2 = 100K to 10M ohms e.g. 100K = **1003**	**F** = 1.0% **D** = 0.5% **B** = 0.1% **A** = 0.05% **P** = 0.02% **L** = 0.01%

EXAMPLE: **HVPS1E5004B** Is a high value precision single-in-line discrete resistor with 100 mil spacing, 25ppm°C TCR, 5mΩ resistance value and a tolerance of ± 0.1%