14AFR Current Sense resistors feature a high temperature ceramic body which affor查姆"如和兩國建建學供应商terminals or copper clad steel densities than similar products which utilize silicone based epoxy molding compounds. The internal construction involves a straight, low inductance, 3-piece welded metal element at 1% tolerance. This series is stocked in 9 popular resistance values for easy accessibility.

FEATURES

- · Ideal for current sensing applications
- 1% Tolerance standard
- · Fixed resistance measuring point
- Low inductance
- RoHS compliant

SPECIFICATIONS

Material

Terminals: Solder-plated copper depending on ohmic value. Encapsulation: Ceramic cased

body Derating: Linearly from 4W@70°C to 0W@250°C

Electrical

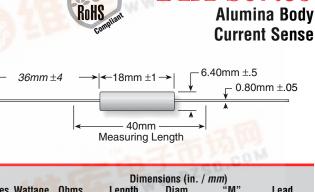
Max.Voltage: $\sqrt{(PxR)}$ RMS Climatic Category: 55/200/56 TCR: Varies from +150 to +1100ppm/°C based on resistance value. TCR increases as resistance value reduces from 51 to 4milliohms. TCR is tested as per IEC Specification 115-1 Clause 4.8.4.2 Tolerance: ±1% standard.

Others available. Power rating: 4W@70°C Dielectric withstanding voltage: 1000 VRMS for 3 and 5 watt; 500 VRMS for 2 watt. Insulation resistance:

Not less than 1000MQ. Thermal EMF: Less than ±2µV/°C. Temperature range:

-55°C to 275°C.

PERFORMANCE CHARACTERISTICS Condition Test Maximum ∆R 1000hrs Test Endurance at ∆R <5% Rated Power Terminal Strength Pull Strength of 50N for 10sec, IEC115-1, Clause 4.16 Test Ua1 Solderability 95% Coverage as per MIL STD 202F, Test 208 Resistance to -260°C for 10sec as per IEC115-1, Clause 4.18 ΔR <0.5% Solder Heat -90-95% RH @40°C for 56 Days, IEC115-1, Long Term ΔR <5% Damp Heat Clause 4.24 As per IEC 115-1, Clause 4.23 **Climatic Sequence** ΔR <5% Overload 5 times rated wattage for 5 seconds



14A Series

Series Wattage Ohms Length Diam. Lead 14A 4 0.004-0.051 0.709 / 18 0.252 / 6.40 1.575 / 40 0.031/0.80

ORDERING INFORMATION



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STD. PAR	RT NUMB	ERS
Ohmic	Part	
value	Number	
0.004	14AFR004E	
0.005	14AFR005E	
0.008	14AFR008E	
0.010	14AFR010E	
0.015	14AFR015E	
0.022	14AFR022E	
0.033	14AFR033E	
0.047	14AFR047E	
0.051	14AFR051E	

