14AFR Current Sense resistors feature a high temperature ceramic body which affor查询"均利和限例》是W供应商terminals: Solder-plated copper densities than similar products depending on ohmic value. 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

Jerminals: 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

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

Not less than  $1000M\Omega$ . Thermal EMF: Less than ±2µV/°C. Temperature range:

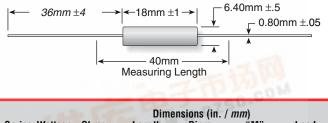
-55°C to 275°C.

PERFORMANCE CHARACTERISTICS						
Test	Condition	Maximum $\Delta R$				
Endurance at Rated Power	1000hrs Test	∆R <5%				
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 Solder Heat	-260°C for 10sec as per IEC115-1, Clause 4.18	∆R <0.5%				
Long Term Damp Heat	-90-95% RH @40°C for 56 Days, IEC115-1, Clause 4.24	∆R <5%				
Climatic Sequence	As per IEC 115-1, Clause 4.23	ΔR <5%				
Overload	5 times rated wattage for 5 seconds					

Tolerance: ±1% standard.

Insulation resistance:





"M" 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**



CTD DAD	TNUMD	спе
STD. PAR		EKS
Ohmic value	Part Number	
0.004	14AFR004E	
0.004	14AFR005E	
0.008	14AFR008E	
0.010	14AFR010E	
 0.015	14AFR015E	
0.022 0.033	14AFR022E 14AFR033E	
0.033	14AFR033E 14AFR047E	
0.051	14AFR051E	

