14AFR Current Sense resistors feature a high temperature ceramic body which affor查询"\seAFBOTOEW供应商terminals or copper clad steel 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

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: √(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 $1000M\Omega$.

Thermal EMF:

Less than ±2µV/°C. Temperature range:

-55°C to 275°C.

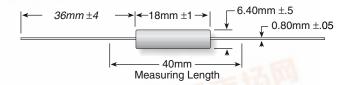
PERFORMANCE	CHARACTERISTICS
_	

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



14A Series **Alumina Body**

Current Sense



			Dime	ensions (in. /	mm)	
Series	Wattag	e Ohms	Length	Diam.	"M"	Lead
14A	4	0.004-0.051	0.709 / 18	0.252 / 6.40	1.575 / 40	0.031/0.80



Ohmic value Part Number 0.004 14AFR004E 0.005 14AFR005E 0.008 14AFR005E 0.010 14AFR010E 0.015 14AFR015E 0.022 14AFR022E 0.033 14AFR033E 0.047 14AFR031E 0.051 14AFR051E
0.005 14AFR005E 0.008 14AFR008E 0.010 14AFR010E 0.015 14AFR015E 0.022 14AFR02E 0.033 14AFR033E 0.047 14AFR047E
0.022 14AFR022E 0.033 14AFR033E 0.047 14AFR047E
U.UJI PARINOTE

