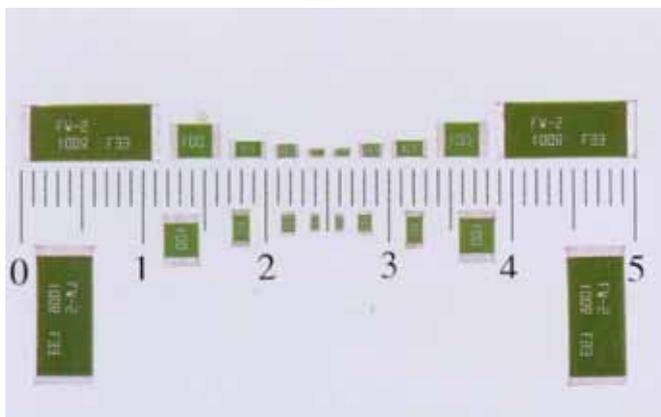


SQUARE FLAT CHIP METAL FILM RESISTOR

Our ARFC type Film Flat Chip Resistor is a high precision Metal Film resistor produced with high purity.

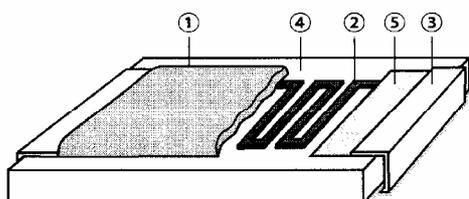
Alumina Substrate and Ni-Cr-Si Resistor Film based on high precision Etching Technology. The electrode Terminals are made with Sputtering Film and Nickel-Solder Plating, and solderability is very good in all Flow, Reflow and Dipping type soldering for Hybrid IC, SMT, PCB etc.



Our ARFC Metal Film Resistor is being produced under the thorough quality control, and is being used widely in high precision and high reliability electronics circuit such as Measuring Instrument, Medical Instruments, Communication and other Industrial Instruments.

Feature

1. Aging deterioration is small and stability is high.
2. Temperature Coefficient is good such as $\pm 5\text{ppm}$.
3. High frequency characteristics is good.
4. Noise Characteristics is good.
5. Terminal construction guarantees reliability of Soldering.

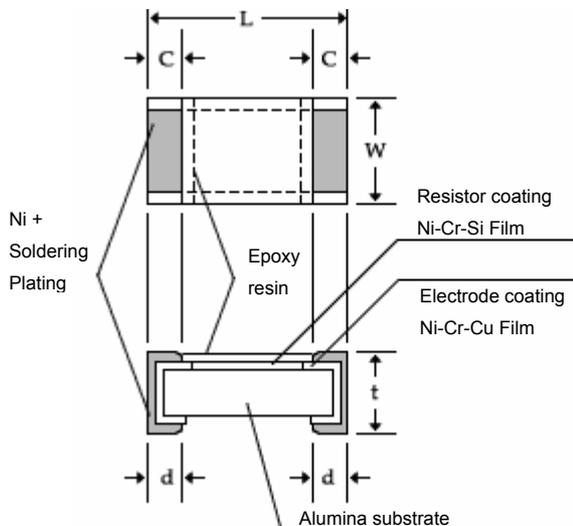


epoxy type overcoating
Ni-Cr type resistor
Ni coating + solder or tin coating
high-purity Alumina basal plate
electrode film Ni-Cr +Cu

Specifications

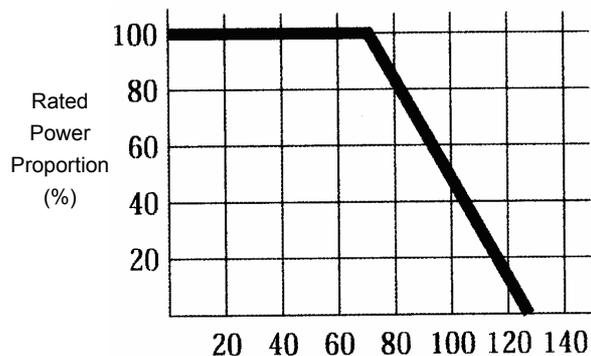
Type	Rated Power	Max. Operation Voltage	Max. Overload Voltage	Value range (Ω)	TCR (ppm/)	Value Tolerance (%)
ARFC-1D	1/8 W	150V	300V	5 – 560K	± 1 (L)	$\pm 0.02\%$ (Q)
ARFC-2D	1/10 W	100V	200V	10 – 200K	± 2 (M)	$\pm 0.05\%$ (A)
ARFC-3D	1/16 W	75V	150V	10 – 100K	± 3 (N)	$\pm 0.1 \%$ (B)
ARFC-5D	1/4 W	200V	400V	5 -1 M	± 5 (P)	$\pm 0.25\%$ (C)
ARFC-6D	1/2 W	350V	700V	5 -2 M	± 10 (Q)	$\pm 0.5 \%$ (D)
ARFC-7D	1 W	500V	1000V	20 – 5M	± 25 (R)	$\pm 1\%$ (F)

Outline & Structure



Type	W	L	C	d	t
ARFC-1D	1.6±0.2	3.2±0.2	0.5±0.25	0.5±0.25	0.4 ^{+0.15} ₋₀
ARFC-2D	1.25±0.2	2.0±0.2	0.5±0.3	0.5±0.25	0.4 ^{+0.15} ₋₀
ARFC-3D	0.8±0.2	1.6±0.2	0.3±0.2	0.3±0.2	0.4 ^{+0.15} ₋₀
ARFC-5D	3.0±0.2	4.2±0.2	0.8±0.3	0.8±0.25	0.7 ^{+0.15} ₋₀
ARFC-6D	5.08±0.2	5.08±0.2	0.8±0.3	0.8±0.25	0.7 ^{+0.15} ₋₀
ARFC-7D	5.0±0.2	11.5±0.3	0.8±0.3	0.8±0.25	0.7 ^{+0.15} ₋₀

Derating Curve



Characteristic Test

Temperature (°C)

Test Item	Test Conditions	Specifications
Short Time Overload	2.5 times of rated voltage 5secs	± (0.1%+0.05 %)
Resistance to Solder Heat	10+1 secs. in 260 ± 5 °C solder	± (0.05%+0.05 %)
Temperature Cycle	-55 ~ +125 °C 5cycles	± (0.1%+0.05 %)
Load Life	Rated V 1000 hrs at 70 °C	± (0.1%+0.05 %)
Humidity Load Life	40 ~ 95% humidity 1000hrs. at rated V	± (0.1%+0.05 %)
Deterioration Absolute	Normal storage 1year	± 50ppm/Year
Deterioration Relative	Normal storage 1year	± 10ppm/Year

Packing

Delivered with Tape & Reel (refer Taping Specifications)

Marketing and Labeling

Type number and Quantity in label on reel. Value Marking on Chip Surface

Others

Special values other than standard series can be complied subject to negotiation.

Some values may not be produced depending on Tolerance.

How to order

Type	Nominal Resistor value	resistor-temperature coefficient	resistor tolerance
ARFC-1D	10kΩ	P(±5ppm/ °C)	B(±0.1%)