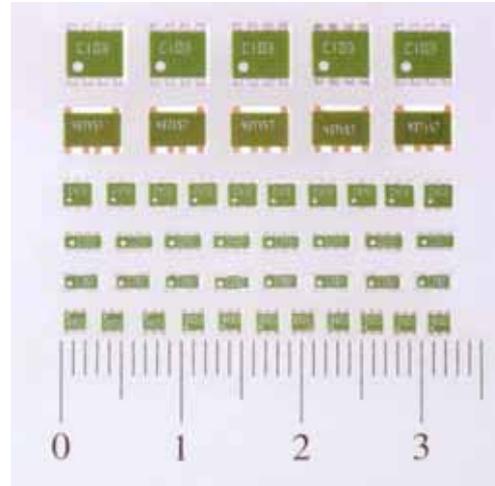


THIN FILM CHIP RESISTOR NETWORKS

Our ARFCN type Thin Film Chip Resistor Network 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.

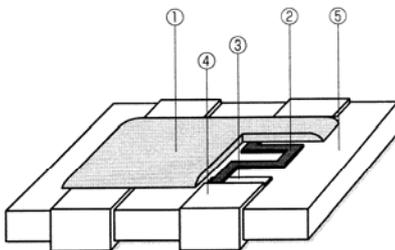


Our ARFCN Thin Film Chip Resistor Network is being produced under the thorough quality control, and is being used widely in high precision and high reliability electronics circuit such as Measuring Instrument, Medical Instruments, Communication and other Industrial Instruments.

Feature

1. Aging deterioration is small and stability is high.(<10ppm/year)
2. Temperature Coefficient is good such as ± 1 ppm.
3. Face mounting board is very small, and automatically embarkation can reduce number of man-hour.
4. ARFCN type is lower cost than SOP, SIP, DIP type resistor.
5. Concerning to small outline, price, mounting performance and relative accuracy, AFRCN type is same as Lamella resistor.

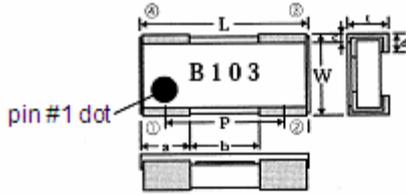
Structure



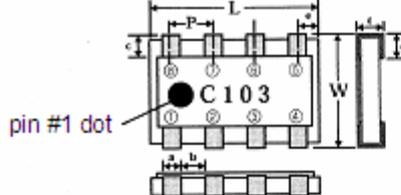
- epoxy type overcoating
- Ni-Cr type resistor
- Cu electrode
- Ni coating + solder or tin coating
- high-purity Alumina basal plate

Outline & Structure

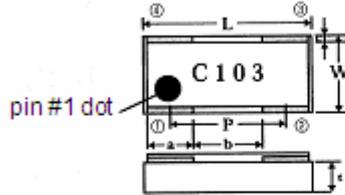
ARFCN-1D



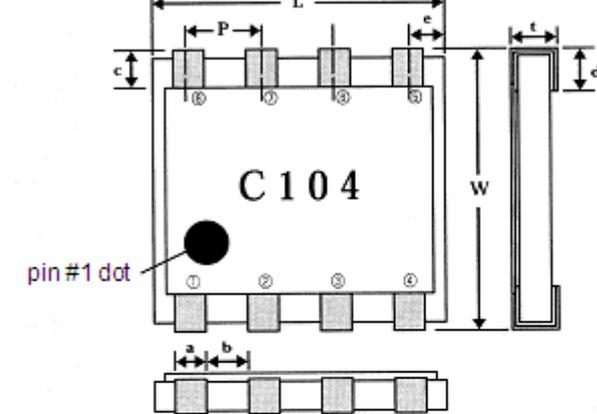
ARFCN-S8



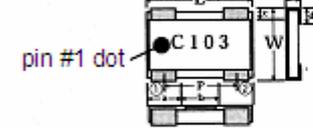
ARFCN-1A



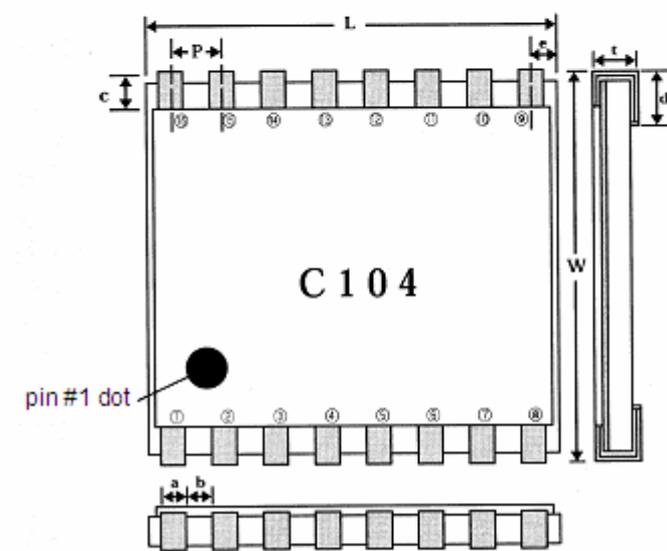
ARFCN-8D



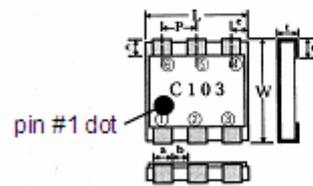
ARFCN-2D



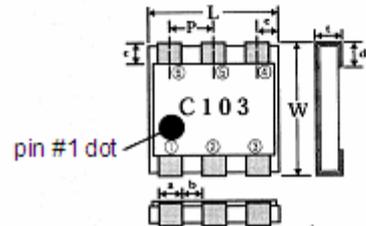
ARFCN-M16D/16D



ARFCN-S6



ARFCN-6D

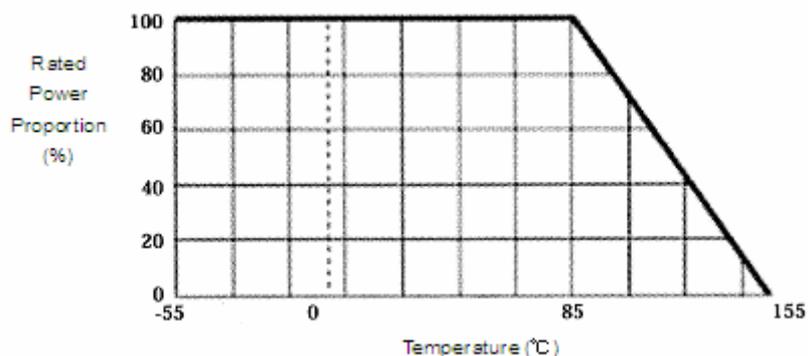


Type	L	W	P	a	b	c	d	e	t
ARFCN-1A	3.2±0.2	1.6±0.2	2.0±0.1	1.0±0.1	1.0±0.1	0.15±0.05	-----	-----	MAX 0.55
ARFCN-1D							0.4±0.05	-----	
ARFCN-2D	2.0±0.2	1.25±0.2	1.3±0.2	0.7±0.2	0.6±0.2	0.1±0.05	0.25±0.05	-----	MAX 0.55
ARFCN-6D	2.54±0.1	2.54±0.1	0.86±0.1	0.43±0.1	0.43±0.1	0.41±0.2	0.5±0.2	0.41±0.1	MAX 0.55
ARFCN-S6D	2.0±0.1	2.0±0.1	0.72±0.1	0.36±0.1	0.36±0.1	0.28±0.2	0.4±0.2	0.28±0.1	MAX 0.55
ARFCN-8D	5.08±0.2	5.1±0.2	1.27±0.1	0.635±0.1	0.635±0.1	0.6±0.2	0.8±0.2	0.635±0.1	MAX 0.9
ARFCN-S8D	3.2±0.2	1.6 ±0.2	0.8±0.1	0.4±0.1	0.4±0.1	0.3±0.2	0.4±0.2	0.3±0.1	MAX 0.55
ARFCN-M16D	10.16±0.2	5.1±0.2	1.27±0.2	0.635±0.1	0.635±0.1	0.6±0.2	0.8±0.2	0.635±0.1	MAX 0.9
ARFCN-16D		8±0.2				0.5±0.2			

Specifications

Type	Rated Power	Circuit Type	Standard Circuit	Value range(Ω)			
ARFCN-1A	1D=0.125W/ TOTAL 2D=0.1W/TOTAL	B		1D(10-50K) 2D(10-25K)			
ARFCN-1D		C		1D(10-100K)			
ARFCN-2D			2D(10-50K)				
ARFCN-S6D	0.15W/TOTAL	C		10 – 50K			
ARFCN-6D	0.25W/TOTAL	2B		10-100K			
ARFCN-S8D	0.125W/TOTAL	C		10-50K			
ARFCN-8D	0.5W/TOTAL			10-200K (1M-TOTAL)			
ARFCN-M16D	1W/TOTAL	C		2M/TOTAL			
ARFCN-16D	1.5W/TOTAL			10M/TOTAL			
Resistor value tolerance (%)			TCR (ppm/)				
Absolute value		Relative value		Absolute value		Relative value	
± 0.05(A)		0.01(T)		± 5(P)		1(L)	
± 0.1(B)		0.02(Q)		± 10(Q)		2(M)	
± 0.25(C)		0.05(A)		± 25(R)		3(N)	
± 0.5(D)		0.1(B)				5(P)	
± 1(F)		0.25(B)				10(Q)	
		0.5(D)					

Derating Curve



Characteristic Test

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 solder	± (0.05%+0.05)
Temperature Cycle	-55 ~ +125 5cycles	± (0.1%+0.05)
Load Life	Rated V 1000 hrs at 85	± (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

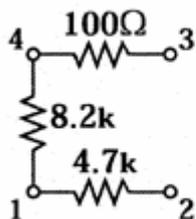
Special values other than standard series can be complied subject to negotiation.

Some values may not be produced depending on Tolerance.

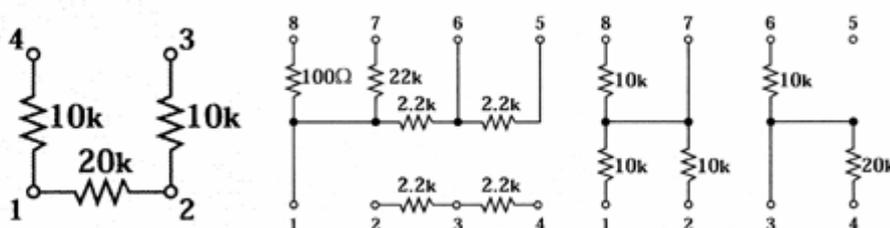
Custom Circuit

We can supply you custom resistor circuit and resistor value that you want such as following examples.

1)ARFCN-1D



2)ARFCN-8D



How to order

