

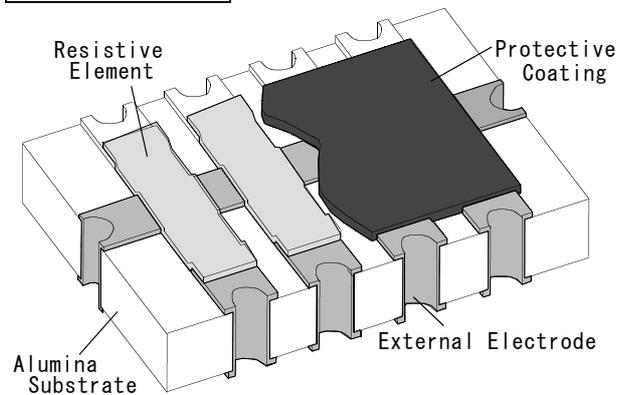
Fixed Chip Resistor Array ACN2A8T

Features

- Concentrated 8 resistance elements into 1 package, high density than chip resistors.
- High cost reduction efficiently by eliminating mounter operation.
- Common electrode is in a width side and a layout is easy.



Construction



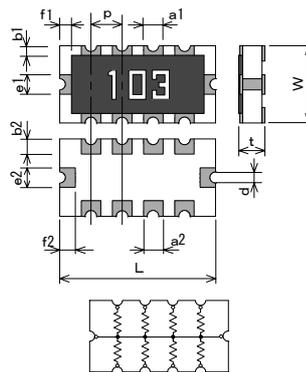
How to order

Example : ACN2A8TEP4J103LF				
ACN	Fixed Chip Resistor Array			
2A	Models			
	<table border="1"><tr><td>2A</td><td>2.1mm</td></tr></table>	2A	2.1mm	
2A	2.1mm			
8	Resistors			
T	Circuit, Terminal and Corner Type			
EP	Packaging Methods			
	<table border="1"><tr><td>EP</td><td>Paper Tape</td></tr></table>	EP	Paper Tape	
EP	Paper Tape			
4	Packaging Quantity			
	<table border="1"><tr><td>4</td><td>4,000 PCS/reel</td></tr></table>	4	4,000 PCS/reel	
4	4,000 PCS/reel			
J	Resistance Tolerance			
	<table border="1"><tr><td>J</td><td>±5.0%</td></tr></table>	J	±5.0%	
J	±5.0%			
103	Resistance Value			
	The first two digits are significant figures of resistance value and the third one denotes the number of zeros following. Example : 100 ··· 10 Ω 103 ··· 10kΩ			
LF	Terminal surface material			
	<table border="1"><tr><td>nothing</td><td>Sn/Pb</td></tr><tr><td>LF</td><td>Sn</td></tr></table>	nothing	Sn/Pb	LF
nothing	Sn/Pb			
LF	Sn			

Ratings

Resistance Tolerance		J class (±5.0%)
Resistance Range		10Ω ~ 1MΩ (E-24 series)
Power Rating	1/element	0.063 W
	1/PKG	0.50 W
Max. Working Voltage		25 V
Max. Overload Voltage		50 V
T. C. R.		±200 PPM/°C
Operating Temp. Range		-55 °C ~ +125 °C

Dimensions · Circuit · Weight

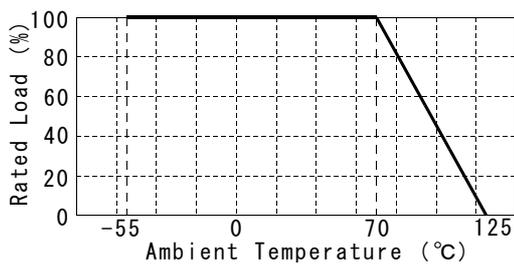


Type	L	W	a1	b1	e1	f1	d
ACN2A8T	4.00±0.20	2.10±0.20	0.50±0.20	0.25±0.20	0.50±0.20	0.30±0.20	φ0.30±0.18
	p	t	a2	b2	e2	f2	Weight
ACN2A8T	0.80±0.10	0.55±0.10	0.40±0.20	0.40±0.20	0.50±0.20	0.35±0.20	17.0 mg

Performance

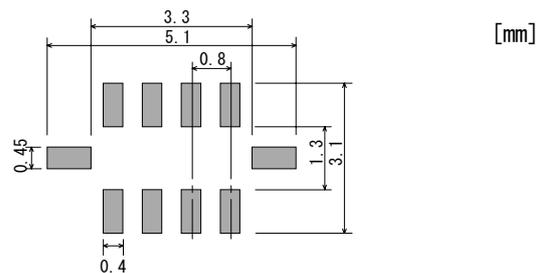
Requirements	Characteristics	Tset-Method (JIS C5201-1)
Temp. Coefficient (TCR)	Within ± 200 PPM/ $^{\circ}\text{C}$	Operating temperature range = $-55^{\circ}\text{C}\sim+125^{\circ}\text{C}$
Short time overload (STOL)	There shall be no mechanical breakage. $\Delta R \leq \pm (2.0\%+0.1\Omega)$	Apply voltage = the rated voltage $\times 2.5$ (Max. voltage = Max. overload voltage) Apply time = 5 seconds
Voltage endurance	There shall be no mechanical breakage.	Apply voltage = 100V AC Apply time = 1 minute
Bend strength	There shall be no mechanical breakage. $\Delta R \leq \pm (0.5\%+0.05\Omega)$	Bend length = 3mm Bend time = 10 seconds
Resistance to soldering heat	There shall be no mechanical breakage. $\Delta R \leq \pm (1.0\%+0.05\Omega)$	Solder temperature = 260°C Dip time = 10 seconds
Solderability	More than 95% of the surface of termination shall be covered by new solder after the resistors are dipped in the solder.	Solder temperature = 235°C Dip time = 2 seconds
Temperature cycle	There shall be no mechanical breakage. $\Delta R \leq \pm (1.0\%+0.05\Omega)$	1 cycle = $-55^{\circ}\text{C}/25^{\circ}\text{C}/125^{\circ}\text{C}/25^{\circ}\text{C}$ Test cycle = 5 cycles.
Humidity load test	There shall be no mechanical breakage. $\Delta R \leq \pm (3.0\%+0.1\Omega)$	Temperature = 40°C humidity = 90~95% RH Apply voltage = rated voltage (ON=1.5Hr/OFF=0.5Hr) Test time = 1,000 hours
Load life	There shall be no mechanical breakage. $\Delta R \leq \pm (3.0\%+0.1\Omega)$	Temperature = 70°C Apply voltage = rated voltage (ON=1.5Hr/OFF=0.5Hr) Test time = 1,000 hours

Power Derating Curve



For resistors operated in ambient temperature above 70°C , power rating shall be derated in accordance with the above figure.

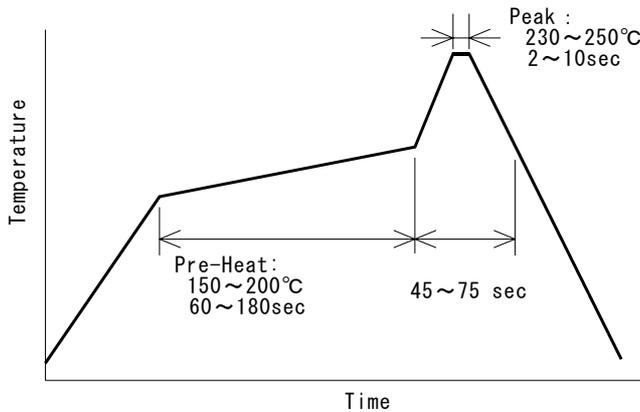
Recommended Land Pattern Design



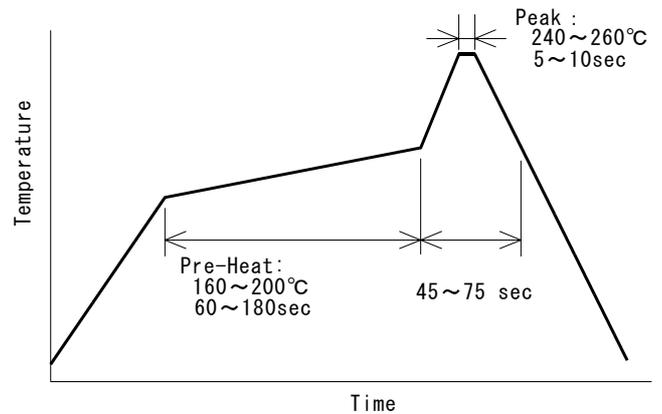
Recommendation Soldering Condition

(a)Reflow Methods

Recommendation the below temperature profile condition. (Reflow times = MAX 2 times)



(1)Normal solder



(2)Lead free solder

(b)Soldering iron Methods

Recommendation the following condition.

The point of the iron temperature = 300°C±5°C

Working time = MAX 3 seconds.

※The soldering iron point should not touch a product directly.

Caution

In operating condition, it should be fully verified suitability of product. In storage condition, it should be kept products with packing in normal temperature and normal humidity and avoided sunshine.

We recommend that ACN products use within one year from delivery. If over one year, check mounting and solderability before use it.

The Others

Please consult our business man about the packing specification and resistance value and so on beyond state in this catalog.