

Thick Film Network Resistor

Features

- Miniature, high density assembly.
- Combinations of different ohmic value are available.
- High reliability with RuO₂ paste.



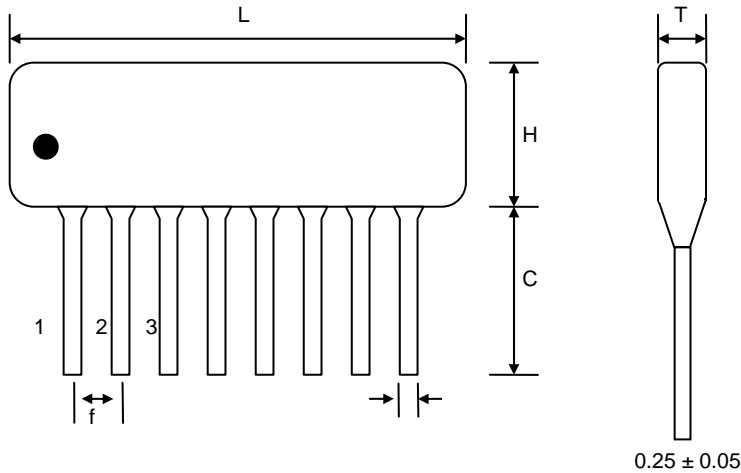
How to Order

D	09	472	J
A	B	C	D

A		B		C	D	
Circuits		Number of Pin		Resistance Value	Tolerance	
Style		Code	Pin	The first two digits are significant figure of resistance and the third one expresses number of following zeros. For example: 104=100KΩ	Code	%
A	04	04pin	F		±1%	
B	05	05pin	G			
C	06	06pin				
D	07	07pin				
E	08	08pin				
F	09	09pin				
G	10	10pin				
H	11	11pin				
		12	12pin			
		13	13pin			
		14	14pin			

Refer to pg2

Dimensions



Model No.	L(MAX)	H(MAX)A	T(MAX)	C±0.5	d±0.05	f±0.2
4	10.2	5.08	2.5	3.5	0.5	2.54 (1.778)
5	12.7					
6	15.3					
7	17.8					
8	20.4					
9	22.9					
10	25.4					
11	28.0					
12	30.5					
13	33.1					
14	35.6					

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Circuit Construction

Type	Equivalent Circuit	Type	Equivalent Circuit
A		B	
C		D	
E		F	
G		H	
T			

Rated Power

Item	A	B
Rated power	1/8W(1/4W)	1/8W(1/4W)
Max. Operating Voltage	200V	
Resistance Tolerance	±1%(F)±2%(G)±5%(J)	
Resistance Range	E-24 Series	
Operating Temperature Range	-55°C ~+125°C	
Temperature Coefficient	±250ppm/ °C/±100ppm/°C/	
Rated temperature	+70°C	

Characteristics

Item	Specifications	Test Methods (JIS C 4202)
Temperature Cycling	+(1.0%+0.05Ω)	-55°C ~+125°C for 5 cycles
Short Time Over Load	+(2%+0.1Ω)	Rated Voltage x2.5 for 5 seconds
Resistance To Soldering Heat	+(1.0%+0.05Ω)	260°C ±5°C for 10 seconds
Moisture Loading Life	+(3%+0.1Ω)	1000Hrs at RcwV 1.5 Hrs ON 0.5Hrs ON,Off
Load Life	+(3%+0.1Ω)	70°C±2 °C, 1000Hrs at RCWV 1.5Hrs ON,0.5Hrs OFF
Solderability	≥95% Coverage	235°C +5 °C for 3 seconds

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Standard Resistance Value(Ohm)

E-12SERIES

10	12	15	18	22	33	39	47	56	68	82
100	120	150	180	220	330	390	470	560	680	820
1K	1.2K	1.5K	1.8K	2.2K	3.3K	3.9K	4.7K	5.6K	6.8K	8.2K
10K	12K	15K	18K	22K	33K	39K	47K	56K	68K	82K
100K	120K	150K	180K	220K	330K	390K	470K	560K	680K	820K
1M	1.2M	1.5M	1.8M	2.2M	3.3M					

Packaging Quantity

Bulk Package(B)	200pcs per plastic bag, 5 bags per box
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