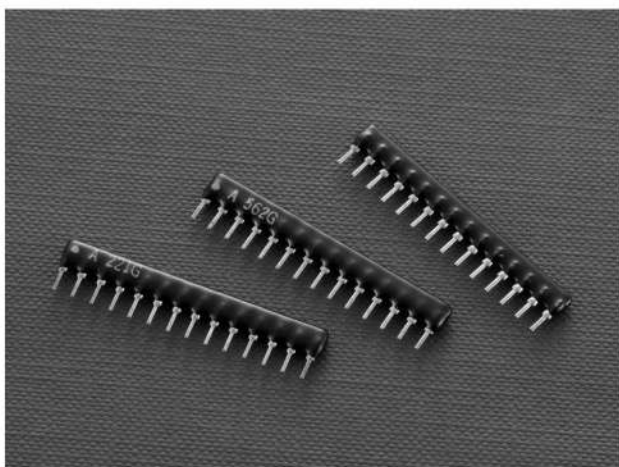


RESISTOR NETWORK

SIP TYPE



Unit : mm

TYPE	L (MAX)	H (MAX)		T (MAX)	C ±0.5	d ±0.05	f ±0.2
		R	X				
4 PIN	10.2	5.08	8	2.5	3.5	0.5	2.54
5 PIN	12.7						
6 PIN	15.3						
7 PIN	17.8						
8 PIN	20.4						
9 PIN	22.9						
10 PIN	25.4						
11 PIN	28.0						
12 PIN	30.5						
13 PIN	33.1						
14 PIN	35.6						

INTRODUCTION

Thick film resistor networks have Metal Glaze Element on the ceramic substrates with strong chip construction terminal, and they are coated with special epoxy resin. They are the most suitable resistors to meet the density of circuit assembling.

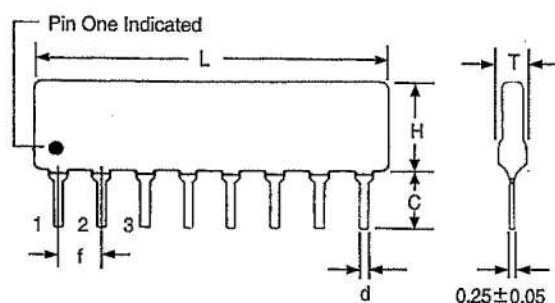
APPLICATION

- Control Circuits for V.T.R Computer, Facsimile, Car & Air-Conditioner.
- Color T.V. & other Electronic Equipments for consumer use.

FEATURES

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

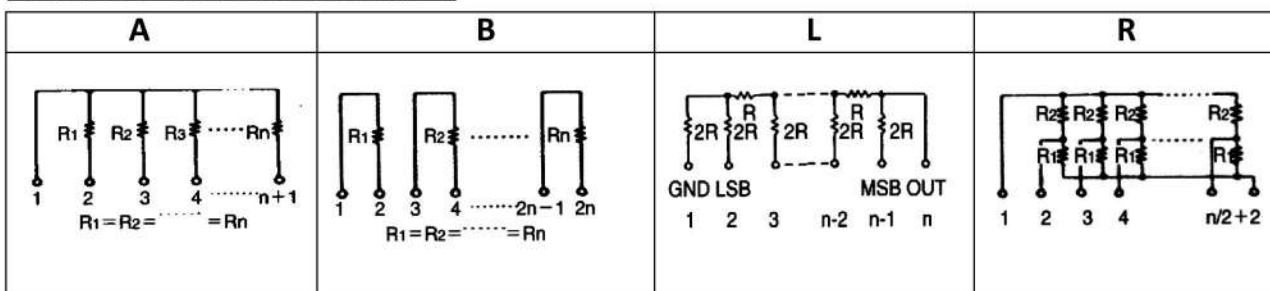
DIMENSIONS



RATINGS

OPERATING TEMP. RANGE	-55°C ~ +155°C		WATTAGE/ELEMENT	R	X
±100PPM : 50Ω ~ 1 MΩ				0.125W	0.25W
±250PPM : R < 50Ω OR ≥ 1 MΩ			Max. Working Voltage	100V	200V
RATING AMBIENT TEMP.	+70°C		Resistance Tolerance	F = ±1%, G = ±2%, J = ±5%	
RESISTANCE RANGE (E-12 SERIES)	RR style	Others			
	100Ω ~ 10K	10Ω ~ 1MΩ			

CIRCUIT CONSTRUCTION



CHARACTERISTICS

TEST	TEST METHOD	LIMITS
RESISTANCE TEMPERATURE CHARACTERISTIC	-55°C ~ +155°C	±100ppm/°C for 50 ohm~1M ±250ppm/°C R< 50 ohm or ≥ 1M
TEMPERATURE CYCLING	-55°C ~ +125°C, for 5 cycles	ΔR ≤ ±(0.5%+0.05Ω)
SHORT-TIME OVERLOAD	Rated Voltage X 2.5 for 5 sec	ΔR ≤ ±(0.5%+0.05Ω)
RESISTANCE TO SOLDERING HEAT	350°C for 3 sec	ΔR ≤ ±(0.5%+0.05Ω)
INSULATION RESISTANCE	100V for 1 minute	Δ1,000 Megohm Min.
TERMINAL STRENGTH	Tensile : 1Kg, 30 sec . Bending : 500g, 2 Times.	ΔR ≤ ±(0.5%+0.05Ω)
THERMAL SHOCK	Load V, Room Temp. 30 minutes Unload, -55°C, 15 minutes Over 2hours in Room Temp. before measuring	ΔR ≤ ±(0.5%+0.05Ω)
SOLDERABILITY	260°C ±5°C, 3sec.	Covering 95%
MOISTURE LOAD LIFE	40°C, 90~95% RH rated Voltage for 1,000 hours.	ΔR ≤ ±(2%+0.05Ω)
LOAD LIFE	70°C at Rated Voltage for 1,000 hours	ΔR ≤ ±(2%+0.05Ω)

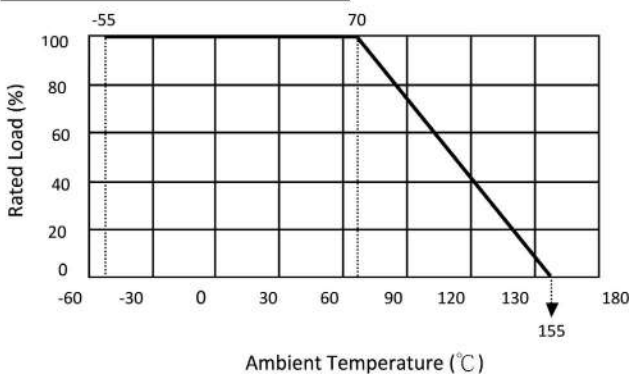
STANDARD RESISTANCE (OHM) E-12 SERIES

10	12	15	18	22	27	33	39	47	56	68	82
100	120	150	180	220	270	330	390	470	560	680	820
1K	1.2K	1.5K	1.8K	2.2K	2.7K	3.3K	3.9K	4.7K	5.6K	6.8K	8.2K
10K	12K	15K	18K	22K	27K	33K	39K	47K	56K	68K	82K
100K	120K	150K	180K	220K	270K	330K	390K	470K	560K	680K	820K
1M											

DUAL TERMINATORS R-TYPE

160/240 **330/390**
180/390 **330/470**
220/270 **1.5K/3.3K**
220/330 **3.0K/6.2K**

DERATING CURVE



HOW TO ORDER

