

Resistor Networks SIP Series

INSTRUCTION

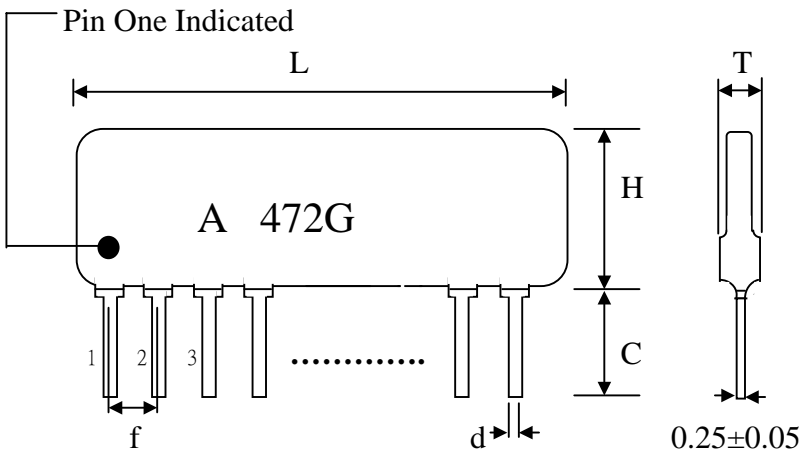
Thick film resistor networks have metal glaze element on the ceramic substrates with strong clip construction terminal, and are coated with special epoxy resin. They are the most suitable to meet the requirement of high density circuit assembling.

How to order : **SIP 08 G 472 A**

Part Number designation: **SIP 08 G 472 A**

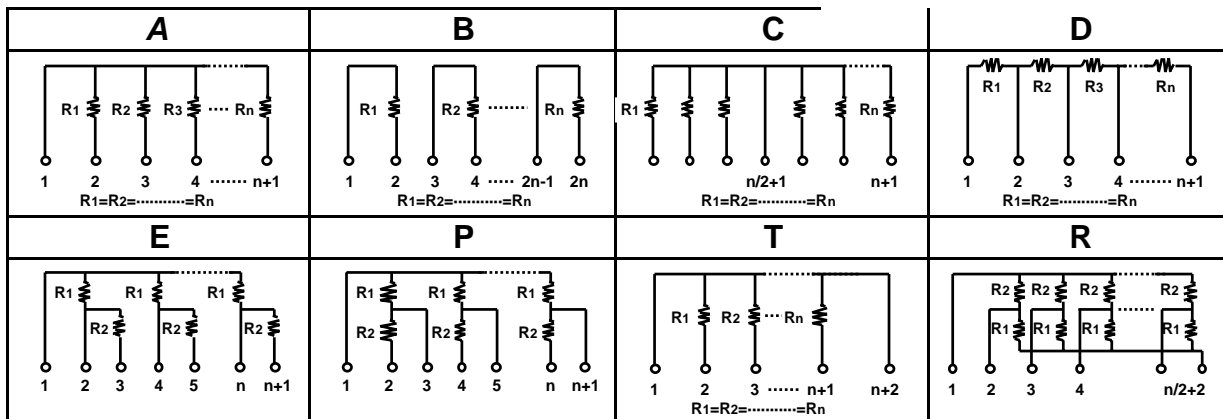
SIP	TYPE
08	PIN NUMBER
G	TOLERANCE
472	RESISTANCE
A	CIRCUIT

CONSTRUCTION & DIMENSIONS



Type	L	H	T	C	d	f
	(max)	(max)	(max)	±0.05	±0.05	±0.2
4pin	10.2					
5pin	12.7					
6pin	15.3					
7pin	17.8					
8pin	20.4	5.08	2.50	3.50	0.50	2.54
9pin	22.9					
10pin	25.4					
11pin	28.0					
12pin	30.5					

CIRCUIT DIAGRAM



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CHARACTERISTICS

1. POWER RATING:

SERIES	CIRCUIT STYLE	POWER RATING
SIP	B	0.2 W
	Others	0.125W

2. MECHANICAL CHARACTERISTICS

ITEM	REQUIREMENT	TEST METHODS
Resistance to soldering heat	ΔR $\leq \pm (0.5\% + 0.05 \Omega)$	With $350 \pm 5^\circ\text{C}$, for 3 seconds.
Solderability	Over 95% of termination must be covered with new solder.	After immersing flus,dip in tl $230 \pm 5^\circ\text{C}$ solder bath for 3 ± 0.5 sec.
Terminal Strength (Tensiles Strength)	ΔR $\leq \pm (1.0\% + 0.05 \Omega)$ No mechanical damage.	Tensile: 1 Kg for 30 sec. Bending; 500g for 2 times
Exterior	No mechanical defect.	Visual
Size	Within specification	Calipers

3. ELECTRICAL CHARACTERISTICS

ITEM	REQUIREMENT	TEST METHODS
Temperature Coefficient (ppm/ °C)	$R < 50 \Omega$ ± 250 PPM/°C $50 \Omega \leq R < 2.2M \Omega$, ± 100 PPM/°C $R \geq 2.2M \Omega$ ± 250 PPM/°C	$TCR(\text{PPM}/^\circ\text{C}) =$ $\frac{R2 - R1}{R1} \times \frac{1}{T2 - T1}$ $T1 = 25^\circ\text{C}$ $T2 = \text{TEST TEMPERATURE}$ $(-55^\circ\text{C} \sim +125^\circ\text{C})$ $R1: \text{RESISTANCE AT TEMP. } T1$ $R2: \text{RESISTANCE AT TEMP. } T2$
Short-Time Overload	ΔR $\leq \pm (0.5\% + 0.05 \Omega)$	$2.5 \times \text{Rated Voltage}$ for 5 sec. (200V max.) Measure resistance after 30 minutes.

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ENVIRONMENT TEST

ITEM	REQUIREMENT	TEST METHODS
Temperature Cycle	ΔR $\leq \pm (0.5\% + 0.05 \Omega)$	Repeat t cycles as follows: $\frac{-55^{\circ}\text{C}}{30 \text{ min.}} \rightarrow \frac{25^{\circ}\text{C}}{15 \text{ min}} \rightarrow \frac{125^{\circ}\text{C}}{30 \text{ min.}} \rightarrow \frac{25^{\circ}\text{C}}{15 \text{ min.}}$
Load Life in Humidity	ΔR $\leq \pm (2\% + 0.05 \Omega)$	Applied: Rated Voltage: 1.5 hours -- " ON " 0.5 hours -- " OFF " Temp: $40 \pm 2^{\circ}\text{C}$ Humidity: 90 ~ 95 % Duration: 1000 hours
Load Life	ΔR $\leq \pm (2\% + 0.05 \Omega)$	Applied: Rated Voltage: 1.5 hours -- " ON " 0.5 hours -- " OFF " Temp: $70 \pm 2^{\circ}\text{C}$ Duration: 1000 hours
High Temperature Exposure	ΔR $\leq \pm (0.5\% + 0.05 \Omega)$	Temp: $125 \pm 5^{\circ}\text{C}$ Duration: 100 hours
Low Temperature Exposure	ΔR $\leq \pm (0.25\% + 0.05 \Omega)$	Temp: $-65 \pm 5^{\circ}\text{C}$ Duration: 24 hours

6. OUTGOING INSPECTION SAMPLING PLAN

1. MIL-STD-105D, LEVEL II, NORMAL INSPECTION

2. SINGLE SAMPLING

3. AQL:

DEFECTIVE	MA	MI
AQL	0.1	0.65

7. PACKAGING

Standard packaging quantity: 200 pcs per bag.