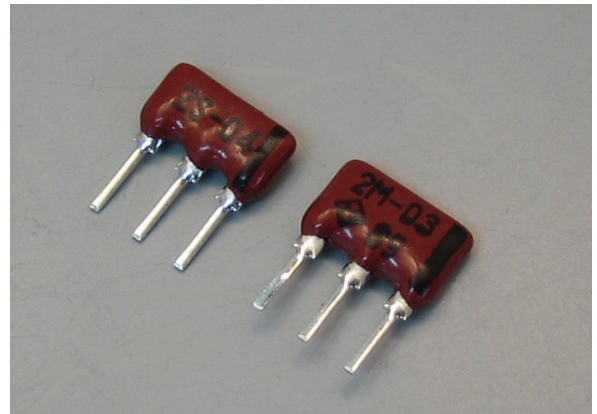


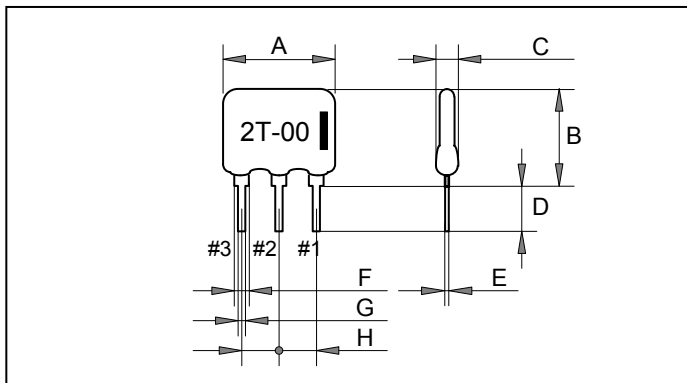
THROUGH-HOLE MATCHED PAIR  
SIP RESISTOR NETWORKS  
2S, 2M, 2T



Features and Applications

High precision matched pair SIP resistor networks made by Ni-Cr thin film sputter on alumina substrates with high density patterning technologies.  
 1ppm-0.05% tight ratio tolerance and TC tracking are realized at 2T series.  
 2S and 2M show good performance and economical.  
 A lot of combination of resistance value is standardized for quick delivery.  
 2.5mm width slim body and 5.0mm high from PC board fit for high density layout design. (2S)  
 Wide applications such as voltage dividers, feed back resistors, voltage reference circuit in data processing, data transmission, precision power sources of industrial controls, medical, measurements, ATE.

Dimensions (mm)



	2T	2S	2M
A	8.0max	8.0max	8.0max
B	5.0max	5.0max	7.0max
C	2.54max	2.54max	2.54max
D	3.3	3.3	3.3
E	0.25	0.25	0.25
F	1.2	1.2	1.2
G	0.5	0.5	0.5
H	2.54	2.54	2.54

Ordering Information

p/n
2T-01
2T-01, 2T-02, 2T-03, 2T-04, 2T-05, 2T-06, 2T-07, 2T-08, 2T-09, 2T-10, 2T-11, 2T-12, 2T-13, 2T-14, 2T-15, 2T-16, 2T-17, 2T-18
2S-01, 2S-02, 2S-03, 2S-04, 2S-05, 2S-06, 2S-07, 2S-08, 2S-09, 2S-10, 2S-11, 2S-12, 2S-13, 2S-14, 2S-15, 2S-16, 2S-17, 2S-18
2M-01, 2M-02, 2M-03, 2M-04, 2M-05, 2M-06, 2M-07, 2M-08, 2M-09, 2M-10, 2M-11, 2M-12, 2M-13, 2M-14, 2M-15, 2M-16, 2M-17, 2M-18

Code
Z00
Z00

Note
Bulk

THROUGH-HOLE MATCHED PAIR SIP RESISTOR NETWORKS 2T, 2S, 2M

Electrical specifications

Type	Resistance		Tolerance		TCR		Pin configurations
	R1,#2-#3	R2,#1-#2	Absolute	Ratio	Absolute	Tracking	
2M-01 2S-01	1Kohm	1Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-02 2S-02	1Kohm	10Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-03 2S-03	10Kohm	10Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-04 2S-04	10Kohm	20Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-05 2S-05	20Kohm	20Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-06 2S-06	15Kohm	15Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-07 2S-07	30Kohm	30Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-08 2S-08	3Kohm	680ohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-09 2S-09	2.2Kohm	10Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-10 2S-10	50Kohm	50Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-11 2S-11	30Kohm	10Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-12 2S-12	60Kohm	20Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-13 2S-13	18Kohm	2Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-14 2S-14	1Kohm	3Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-15 2S-15	1Kohm	9Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-17 2S-17	3Kohm	6Kohm	+/-1%	0.1%	+/-25ppm	5ppm	
2M-18 2S-18	2Kohm	10Kohm	+/-1%	0.1%	+/-25ppm	5ppm	

Type	Resistance		Tolerance		TCR		Pin configurations
	R1,#2-#3	R2,#1-#2	Absolute	Ratio	Absolute	Tracking	
2T-01	1Kohm	1Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-02	1Kohm	10Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-03	10Kohm	10Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-04	10Kohm	20Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-05	20Kohm	20Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-06	15Kohm	15Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-07	30Kohm	30Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-08	3Kohm	680ohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-09	2.2Kohm	10Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-10	50Kohm	50Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-11	30Kohm	10Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-12	60Kohm	20Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-13	18Kohm	2Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-14	1Kohm	3Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-15	1Kohm	9Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-17	3Kohm	6Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	
2T-18	2Kohm	10Kohm	+/-0.1%	0.05%	+/-5ppm	1ppm	

Specifications and Performances

Type	2T	2S	2M	Test Conditions
Rating Power/element	125mW	125mW	125mW	250mW/Package
Rated Ambient Temp.	70 deg C	70 deg C	70 deg C	
Operating Temp. Range	-55 to +125 degC			
Tax. Applied Voltage	Less than 100V			Accordance with $E = \sqrt{P \cdot R}$
Short Time Overload	+/-0.1 % Abs			2.5 times rated power, 5seconds
Load Life	+/-0.1 % Abs			70C, 90min ON, 30min OFF, 1000hours
Humidity	+/-0.25 % Abs			40C, 90-95RH, DC 0.1W, 1,000hours
Soldering Heat	+/-0.1 % Abs			350C, 3seconds
Withstanding Voltage	+/-0.1 % Abs			1000VAC, 60seconds
Insulation Resistance	10,000Mohm			