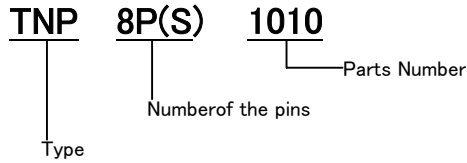


• Type designation

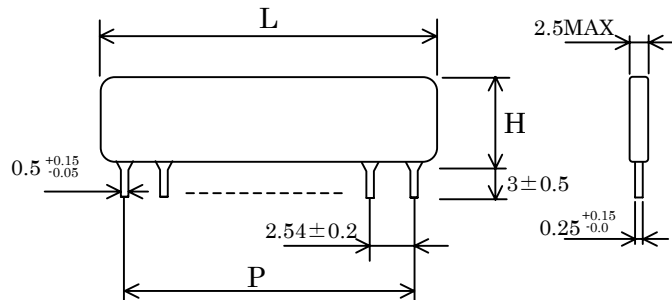


• Rating

Rated power (70°C)	Highest usable voltage	Extreme highest overload voltage	Applicable temperature range
0.1W/1 element each	100V	200V	-55°C ~ +155°C

• Dimensions

Type	H Max (mm)
TNPS	6.5
TNP	9.0



Item	Type	3P	4P	5P	6P	7P	8P	9P	10P	11P	12P	13P	14P	15P
L	TNPS	7.62	10.16	12.70	15.24	17.78	20.32	22.86	25.40	27.94	30.48	33.02	35.56	38.10
Max	TNP	8.98	11.52	14.06	16.60	19.14	21.68	24.22	26.76	29.30	31.84	34.38	36.92	39.46
P	Common	5.08	7.62	10.16	12.70	15.24	17.78	20.32	22.86	25.40	27.94	30.48	33.02	35.56

• Resistance vs temperature characteristic

T·C·R ppm/°C

Temperature characteristic	R	S	E	C
Absolute value	±5	±10	±25	±50
Relative value	1,2,5	1,2,5,10	1,2,5,10,25	1,2,5,10,25

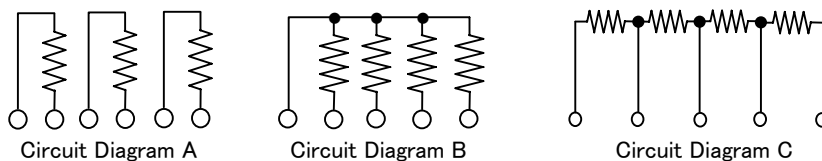
Note 1 Relative value 1ppm is in the case of the same resistance value.
 Note 2 Relative value 2ppm is in the case of under the resistance ratio of 50 times.
 Note 3 The guaranteed temperature range of TCR is from 0°C to 70°C in the case of R and S.

• Resistance value production range

Circuit	Resistance value range (Ω)		Resistance ratio
	R·S	E	
A	100~100k	40~250k	1000 times
B	100~50k	40~100k	
C	100~75k	40~150k	

Note 4 A lead frame is widened to make up to the highest resistance of 1MΩ.

• Circuit diagram



• Tolerance for resistance

Tolerance	A	B	C	D	F
Absolute value (%)	±0.05	±0.1	±0.5	±0.5	±1
Relative value (%)	0.025,0.05	0.025,0.05,0.1	0.025,0.05,0.1,0.25	0.025,0.05,0.1,0.25,0.5	