

TPM Series

■ Features

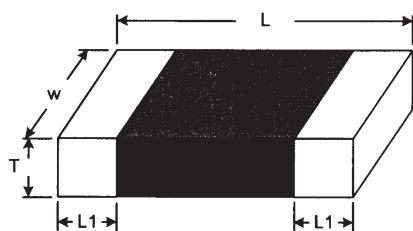
1. RoHS Compliant
2. Thermistor chip with lead-free tinned terminations
3. EIA size 0603,0805
4. Fast and reliable response
5. Suitable for reflow soldering



■ Recommended Applications

1. DC/DC converters
2. AC Adapter
3. Inverter
4. Overheat protection for transistor and ICs

■ Dimensions



(Unit:mm)

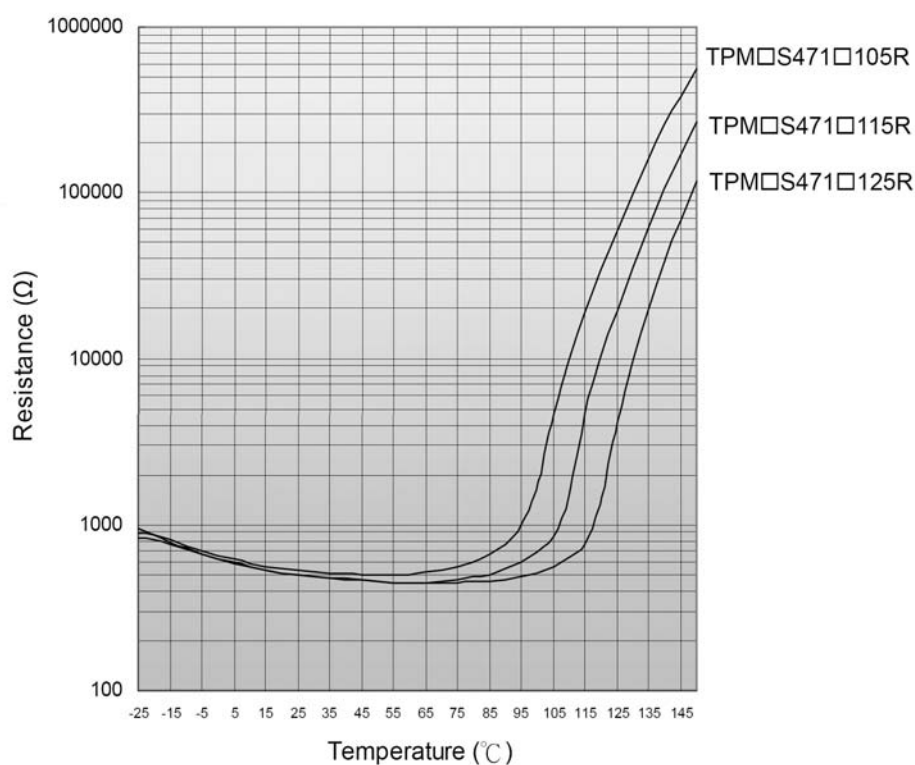
Part No.	Size (EIA)	L nor.	W nor.	T max.	L1 nor.
TPM1	0603	1.60±0.15	0.80±0.15	0.95	0.25±0.15
TPM2	0805	2.00±0.20	1.25±0.20	1.20	0.40±0.20

■ Characteristics

Part Number	Size (EIA)	Sensing temperature (°C)	Resistance (Ω)			Max. Voltage (V)	Operating Temperature Range (°C)
		Ts	25°C	Ts - 5°C	Ts + 5°C	V _{dc}	
TPM1S471□105R	0603	105±5	470	≤ 4,700	≥ 4,700	32	-25~+120
TPM1S471□115R		115±5					-25~+130
TPM1S471□125R		125±5					-25~+140
TPM2S471□105R	0805	105±5	470	≤ 4,700	≥ 4,700	32	-25~+120
TPM2S471□115R		115±5					-25~+130
TPM2S471□125R		125±5					-25~+140

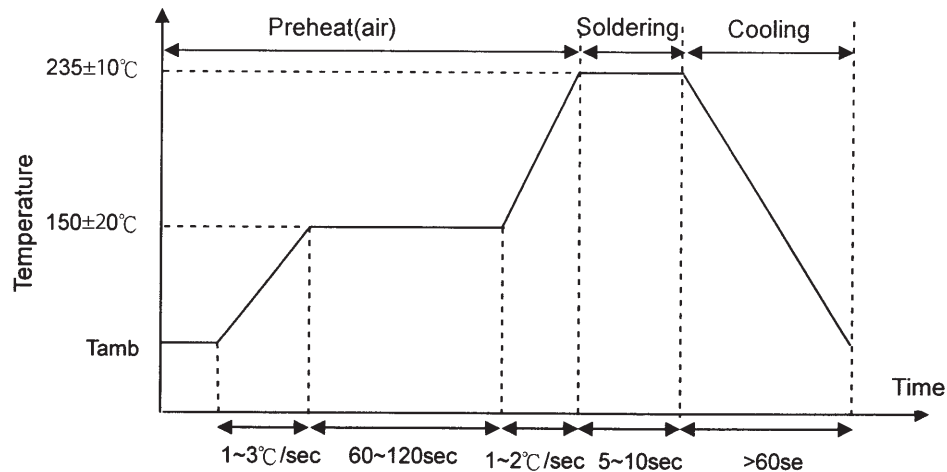
Note : □ = Tolerance of resistance ,±50%

■ Resistance-Temperature Characteristics (Typical)

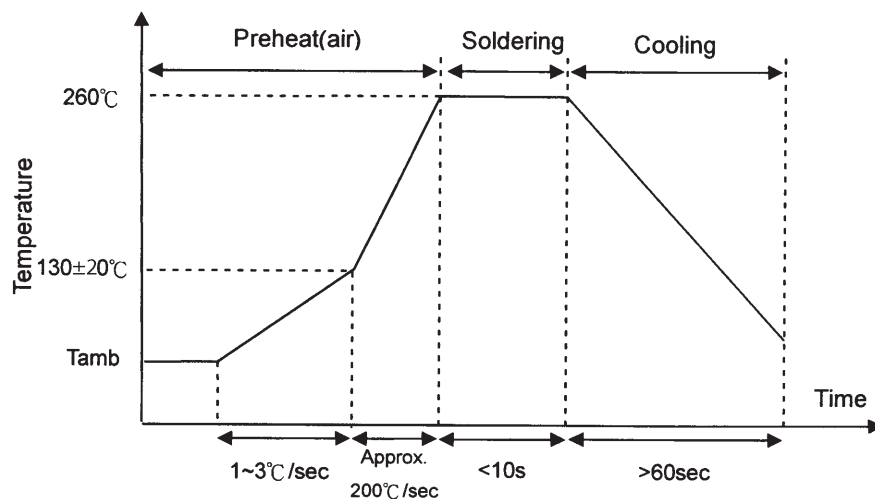


Soldering Recommendation

■ IR-Reflow Soldering Profile



■ Wave Flow Soldering Profile



■ Reworking Conditions With Soldering Iron

Item	Conditions
Component Preheated	130~150°C 60 sec (min.)
Temperature of Soldering Iron-tip	280°C (max.)
Diameter of Soldering Iron-tip	3mm (max.)
Soldering Time	10 sec (max.)