

Multi-Function Varistor With 2 Remote Signal leads

TPT-L series

MERITEK

FEATURE

- Operating Temperature: -40°C ~ +85°C
- Max Continuous Operating Voltage: 50V_{AC} ~ 550V_{AC}
- High Surge Current rating: 50KA
- 2 Leads for Fault Indication
- Application in AC mains, Service Entrance, and Industrial Control
- Compliant with UL 1449 requirement
- UL/cUL Safety approved: Certification No: E326004



PART NUMBERING SYSTEM

TPT 150 L T2
(1) (2) (3) (4)



No	Item	Digit	Description	Series Reference
(1)	Meritek Series	TPT	Thermally Protected Varistor	With Remote Signal leads
(2)	Max Operation AC Voltage	150	150: 150VAC	Max Continuous Operation Voltage (MCOV)
(3)	Terminal Type	L	L: Long tab type	S: Short tab type
(4)	Signal Lead Configuration	T2	T: Top side, 2 signal lead	Location and No of single Lead

ELECTRICAL CHARACTERISTICS

Part Number	Max Continuous Operating Voltage		Varistor Voltage At 1.0mA		Nominal Discharge Current	Max Discharge Current	Max DC Leakage Current
	MCOV		Vn min	Vn max	In 8/20us	Imax 8/20us	IL*
	(V _{AC})	(V _{DC})	(V)	(V)	(KA),15times	(KA),1times	(uA)
TPT050L□	50	65	74	90	20	50	15
TPT060L□	60	85	90	110			
TPT075L□	75	100	108	132			
TPT150L□	150	200	222	270			
TPT180L□	180	225	256	310			
TPT275L□	275	350	410	496			
TPT300L□	300	385	427	517			
TPT320L□	320	415	459	561			
TPT350L□	350	460	504	616			
TPT385L□	385	505	558	682			
TPT420L□	420	560	612	748			
TPT440L□	440	585	644	786			
TPT460L□	460	615	675	825			
TPT510L□	510	670	738	902			
TPT550L□	550	745	819	1001			

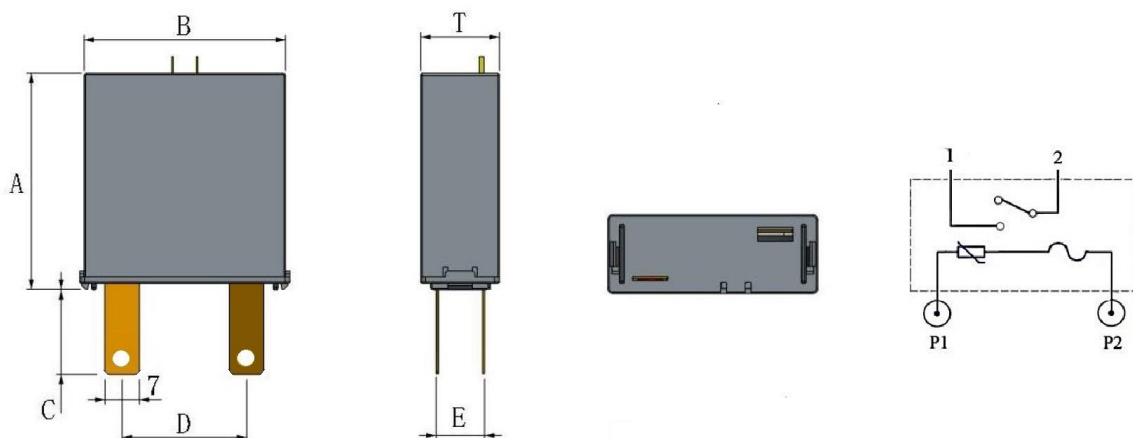
*Note: L□: Tab size and lead configuration, Max DC leakage current measured at 75% of Varistor voltage

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DIMENSION and LEAD CONFIGURATION



Unit: mm

Series	A (±0.2)	B (±0.2)	C (±0.2)	D (±0.2)	T (±0.2)	E (±0.2)
TPT-L	43.9	41.0	20	25.5	16.0	10.0

SOLDERING RECOMMENDATION

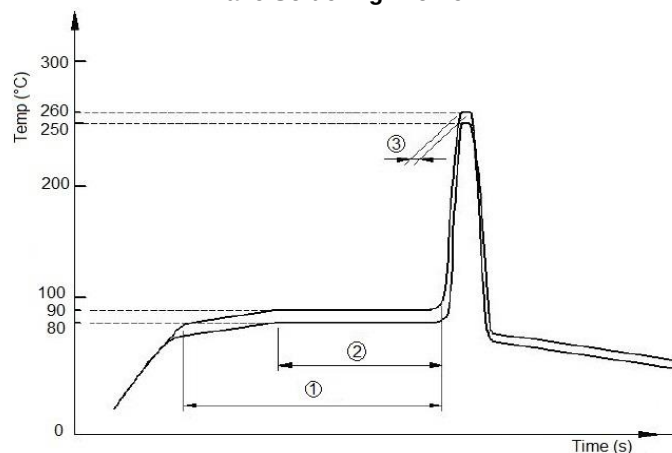
Wave Soldering

Stage	Condition
1 Preheating	<150sec
2 Soaking	<100sec
3 Dwell Time	Dip Time ≤4sec

Iron Soldering

Item	Condition
Iron Temperature	350°C (Max.)
Soldering Time	4sec (Max.)
Space between Soldering Point and the Bottom of Product	2mm (Min.)

Wave Soldering Profile



PACKAGING SPECIFICATION

Item	Dimensions (mm)	Quantity
Plastic Tray	250x180x22	12 PCS / Plastic Tray
Outside Box	270x2500x220	288PCS / Carton

*Specifications subject to change without notice.