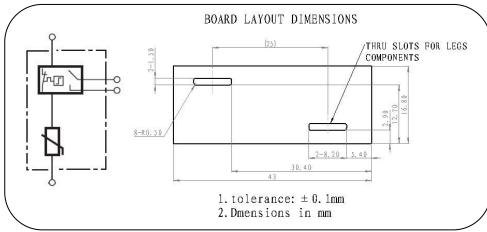


MODULAR THERMALLY PROTECTED MOV

SMTMOV





c**71**1°us $C \in$ Basic circuit diagram

PCB layout dimensions

Technical Features

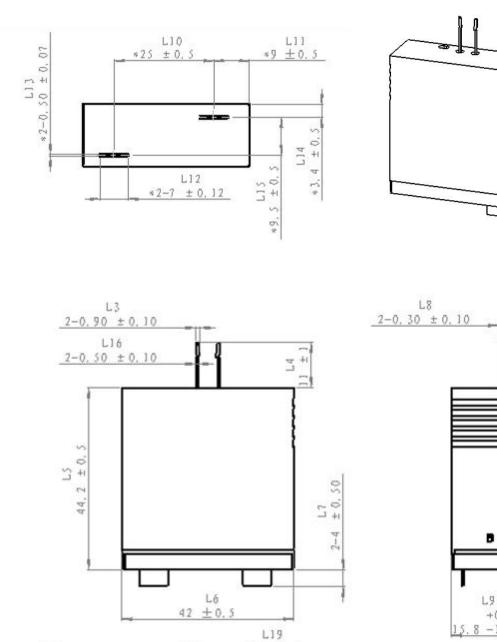
Type 1 thermally protected MOV designed to open in the event of overheating due to an abnormal over-voltage or temporary over voltage (TOV) and will interrupt any abnormal current that may be encountered.

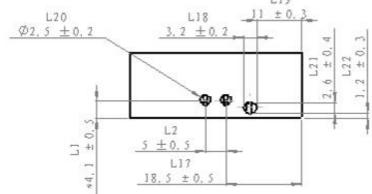
- UL recognized Type 1ca SPD (UL1449 4th), Type 2ca SPD (CSA C22.2)
- High surge current discharge capacity up to 50kA 8/20µs
- PCB mounting design, compact size to save installation space
- Quick thermal response and perfect circuit cutoff function due to special thermal disconnector design with arc extinguishing device (Patent No.US20110170217A1).
- floating remote signaling contact (50mA 12Vdc) for fault indication
- SCCR up to 200kArms tested without external fuse or CB
- Wide operating temperature range and high reliability.

Part No.		SMTMOV150	SMTMOV180	SMTMOV275	SMTMOV320	SMTMOV420	SMTMOV550	SMTMOV690
		A A						
Compliance		ANSI/UL 1449-4 ; EN/IEC 61643-11						
Category (UL/CSA)		Type 1ca per UL 1449 4th Type 2ca per CSA C22.2						
Technology		MOV technology, TPAE technology						
Max. continuous operating voltage (AC/DC)	MCOV	150V/200V	180//230V	275V/350V	320V/410V	420V/560V	550V/745V	690V/910V
Nominal discharge current(8/20)	In	20kA						
Max. discharge current(8/20)	Imax	50kA				40kA		
Voltage protection level	VPR	<0.6kV	<0.6kV	<0.8kV	<1.0kV	<1.5kV	<1.5kV	<2.0kV
Response time t _A		≤25 ns						
Short Circuit Current Rating per UL1449 SCCR		200kA						
Electric Strength		≥2500V						
Insulation Resistance		≥10 MOhm						
Enclosure material		thermoplastic; extinguishing degree UL94 V-0						
Operating temperature range		Temperature Range: - 40° C ~ +85° C; Humidity: ≤95%; Altitude: ≤2000m						
Disconnector instructions		viewed through top hole of plastic housing						
Remote alarm contact		floating contact (50mA 12Vdc) for fault indication						
Failure Indication /Status		RED- Failure, viewed through top hole of plastic housing						
Mounting		PCB						
Approvals, Certifications		UL, CE						



Dimension drawing





0

+0.7