

**Specification Status: Released**

**Operating Conditions at 20°C:**

Maximum Continuous Operating Voltage ( $V_{mco}$ ): 60V<sub>dc</sub>  
Maximum Interrupt Current ( $I_{int}$ ): 3A<sub>rms</sub>

**Fault Ratings at 20°C:**

Maximum Limited Duration Voltage ( $V_{ldf}$ ): 600 V<sub>rms</sub>  
Maximum Limited Duration Current ( $I_{ldf}$ ): 40A

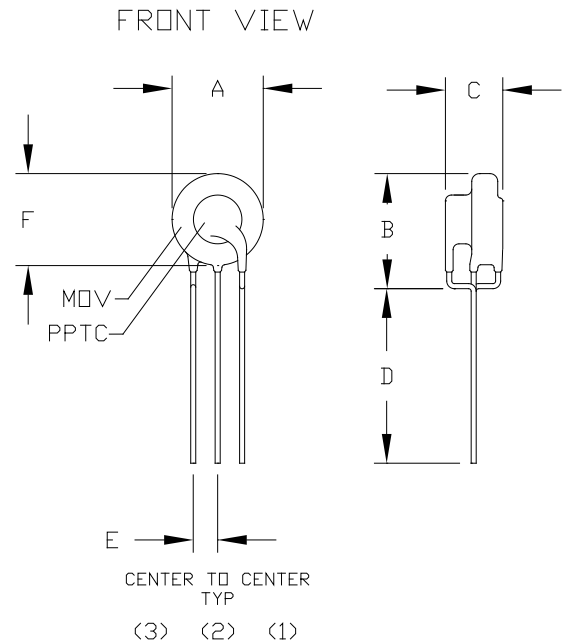
**Insulating Material:** Cured, Flame Retardant Epoxy Polymer  
(meeting UL94 V-0 requirements)

**Lead Material:**

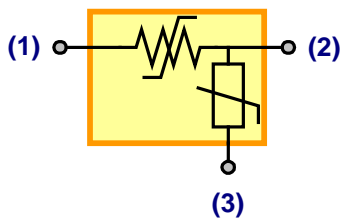
22 AWG Sn- Plated Copper (0.65 mm [0.026"] nominal diameter)

**Marking (on back):**

- Manufacturer's Mark
- XX 1027 — Part Identification
- — Lot Identification



**Electrical Schematic:**



**TABLE I. DIMENSIONS:**

	A		B		C		D		E	F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	MIN	MAX
mm:	--	12.0	--	15.0	--	6.6	6.0	--	2.5	--	12.0
in.*	--	(0.47)		(0.59)		(0.26)	(0.24)		(0.10)		(0.47)

\*Rounded off approximation

**Intended Use: Communications and Signaling Circuits.**
**TABLE II. PPTC-SECTION (terminals 1-2) PERFORMANCE RATINGS @ 20°C:**

HOLD CURRENT (A)	TRIP CURRENT (A)	RESISTANCE (Ω)†			TIME TO TRIP† (s) @ 1A	
		R MIN	R MAX	R <sub>1</sub> MAX*	TYP	MAX
0.15	0.30	6.5	14.0	16.0	0.9	3

\*Maximum device resistance at 20°C measured 1 hour post trip.

† Corresponds to operations below varistor switch voltage.

**TABLE III. MOV-SECTION (terminals 2-3) PERFORMANCE RATINGS @ 20°C:**

VARISTOR VOLTAGE V @ 1mA		DC RESISTANCE @ 100V	MAXIMUM CLAMPING VOLTAGE @ 25A	RATED WATTAGE
DC (V)	Tolerance	(MΩ)	(V)	(W)
260	+14% / -7%	>10	455	0.25

**TABLE IV. LIGHTNING WITHSTAND FOR THE ASSEMBLY (TERMINALS 1-3) @ 20°C:**

Parameter	VOLTAGE – Open Circuit		CURRENT – Short Circuit		Repetitions
	Voltage (V)	Waveform (μs)	Current (A)	Waveform (μs)	
TIA-968 Lightning Type A Metallic	800	10 x 560	100	10 x 560	1 ea. Polarity
TIA-968 Lightning Type A Longitudinal	1500	10 x 160	200	10 x 160	1 ea. Polarity
TIA-968 Lightning Type B Metallic	1000	9 x 720	25	5 x 320	1 ea. Polarity
TIA-968 Lightning Type B Longitudinal	1500	9 x 720	37.5	5 x 320	1 ea. Polarity
ITU-T K.20/K.21	1500	10 x 700	37.5	5 x 310	5 ea. Polarity

**TABLE V. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PCN # (INTERNAL USE ONLY)	PACKAGING TYPE	NOTES
TM2P-10271	RF0378-000	Bulk	N/A
TM2P-10271-2	RF0504-000	Tape and Reel	Dim. D not applicable

Agency Recognitions:	N/A
Reference Documents:	PS300 for PPTC section
Precedence:	This specification takes precedence over documents referenced herein.
Effectivity:	Reference documents shall be the issue in effect on the date of invitation for bid.
CAUTION:	Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

## Materials Information

**ROHS Compliant**

 Directive 2002/95/EC  
 Compliant

**ELV Compliant**

 Directive 2000/53/EC  
 Compliant

**Pb-Free**


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