

## **TP102MV**



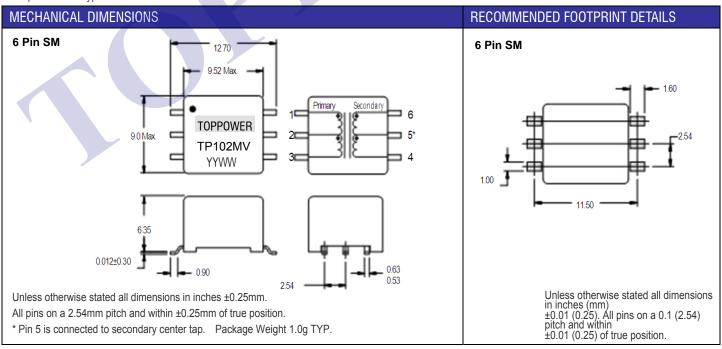
DESCRIPTION: MAX250/MAX251 Compatible Converter Transformers

The TP102MV of converter transformers are specifically designed for use with Maxim chipsets to provide isolated RS232 interfaces. Carefully controlled turns ratios ensure consistent performance whilst a toroidal construction minimises EMI.

Maxim MAX250/MAX251 compatible		Isolation to 3500VDC		
Surface mount option		UL 94 V-0 package materials		
Toroidal construction		Fully encapsulated		
1		1		
Turn Ratio				
1: 1				
Conditions		Min.	Тур.	Max. Units
10kHz, 20mV		0.618	1.0	mH
10kHz, 20mV				25 µH
10MHz, 20mV				5.2 pF
				1.34 Ω
Package Type		Packaging Typ	е	Quantity
6 Pin SM		Tube		50
6 Pin SM		Tape & Reel		500
Operating free air temperature range				
Storage temperature range				
Lead temperature 1.5mm from case for 10 seconds 30				
Peak current, I <sub>PK</sub>				
	Surface mount option Toroidal construction /  Turn Ratio 1: 1  Conditions 10kHz, 20mV 10kHz, 20mV 10MHz, 20mV  Package Type 6 Pin SM  6 Pin SM	Surface mount option Toroidal construction /  Turn Ratio 1: 1  Conditions 10kHz, 20mV 10kHz, 20mV 10MHz, 20mV  Package Type 6 Pin SM  6 Pin SM  -40°C to 125°C -50°C to 150°C	Surface mount option Toroidal construction /  Turn Ratio 1: 1  Conditions 10kHz, 20mV 10kHz, 20mV 10MHz, 20mV  Package Type 6 Pin SM Tube 6 Pin SM Tube  -40°C to 125°C -50°C to 150°C 300°C	Surface mount option  Toroidal construction /  Turn Ratio 1: 1  Conditions Min. Typ. 10kHz, 20mV 10kHz, 20mV 10MHz, 20mV  Package Type 6 Pin SM  Package Type 6 Pin SM  Tube  -40°C to 125°C -50°C to 150°C 300°C

All specifications typical at TA=25°C

Isolation voltage TP102MV (flash tested for 1 second)



3500VDC



### TUBE OUTLINE DIMENSIONS

# 4.00 12.95 0.60±0.15 5.50

Unless otherwise stated all dimensions in inches (mm) ±0.25.

Tube length: 18.3±0.08 (465±2).

Tube material: Antistatic coated clear pvc.

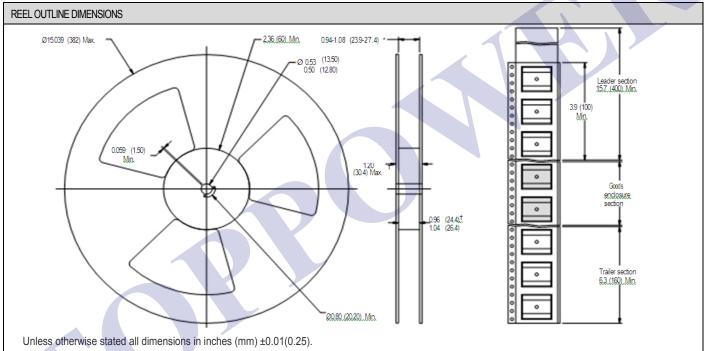
### **SOLDERING INFORMATION**

Pin finish	Matte tin

Peak wave solder temperature 300°C for 10 seconds

Peak reflow temperature Max Temp 245°C, reflow time 60-90S

### TAPE & REEL SPECIFICATIONS



\*Includes flange distortion at outer edge .t Measured at hub.

### TAPE OUTLINE DIMENSIONS

