

TP103MV



DESCRIPTION:

MAX250/MAX251Compatible Converter Transformers

The TP103MV 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.

C.					
FEATURES					
RoHS compliant	Maxim MAX250/MAX2	251 compatible	Isolation to 3500VDC、5000VDC		
Industry-standard pinout	Surface mount option		UL 94 V-0 package materials		
Low profile	Toroidal construction		Fully encapsulated		
Industrial temperature range	1		1		
FEATURES					
Part Number	Turn Ratio	Turn Ratio			
TP103MV	1: 1.8				
TP103MV/5H	1: 1.8				
5KVDC isolation with /5H at the end of the part	number. for example TP10	03MV/5H;5KVDC isolated	d		
CHARACTERISTICS					
Parameter	Conditions		Min.	Typ. Max.	Units
Primary Inductance, L _P	10kHz, 20mV		0.618	1.0	mH
Leakage Inductance, L _L	10kHz, 20mV			25	μH
Interwinding Capacitance, C _{WW}	10MHz, 20mV			5.2	pF
Primary D.C. Resistance, R _{DC}				1.34	Ω
ORDER CODE DETAILS					
Order Code	Package Type		Packaging Type	Quantity	
TP103MV 6 Pin SM			Tube	50	
TP103MV-R 6 Pin SM			Tape & Reel	500	
ABSOLUTE MAXIMUM RATINGS					
Operating free air temperature range		-40°C to 125°C			
Storage temperature range		-50°C to 150°C			
Lead temperature 1.5mm from case for 10 seconds		300°C			

310mA

3500VDC

5000VDC

Lead temperature 1.5mm from case for 10 seconds

Peak current, IPK

Isolation voltage TP103MV (flash tested for 1 second)

Isolation voltage TP103MV/5H (flash tested for 1 second)

All specifications typical at TA=25°C

RECOMMENDED FOOTPRINT DETAILS **MECHANICAL DIMENSIONS** 6 Pin SM 6 Pin SM 12.70 9.52 Max. **TOPPOWER** 9.0 Max. TP103MV YYWW 11.50 6.35 0.012±0.30 0.63 Unless otherwise stated all dimensions in inches (mm) ± 0.01 (0.25). All pins on a 0.1 (2.54) pitch and within ± 0.01 (0.25) of true position. Unless otherwise stated all dimensions in inches ±0.25mm. All pins on a 2.54mm pitch and within ±0.25mm of true position. * Pin 5 is connected to secondary center tap. Package Weight 1.0g TYP.



TUBE OUTLINE DIMENSIONS

0.60±0.15 5.50 12.95 12.95

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

Tube length: 18.3±0.08 (465±2).

Tube material: Antistatic coated clear pvc.

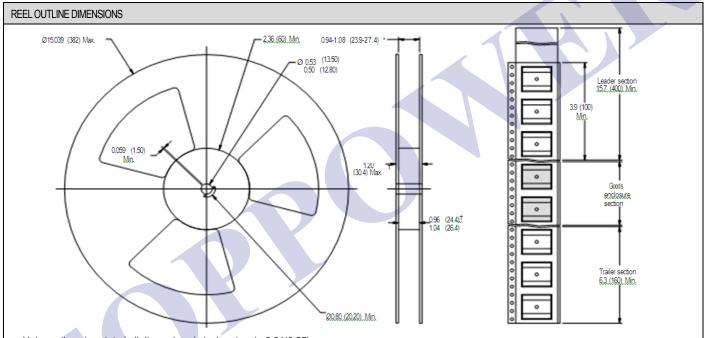
SOLDERING INFORMATION

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



Unless otherwise stated all dimensions in inches (mm) ±0.01(0.25). *Includes flange distortion at outer edge .t Measured at hub.

TAPE OUTLINE DIMENSIONS

