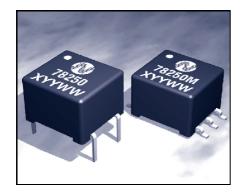




Power Solutions

Converter Transformers



FEATURES

- Maxim Compatible
- Isolation to 4kV
- Surface Mount Options
- Toroidal Construction
- Standard Pinout
- UL 94V-0 Package Material
- Fully Encapsulated
- Low Profile
- Industrial Temperature Range

DESCRIPTION

The 78250 series 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. The surface mount devices are fully compatible with CECC00802 to 280°C which allows them to be placed and reflowed with IC's thus reducing time and cost in production.

SELECTION GUIDE 78250/78250M							
Parameter	Conditions	MIN	TYP	MAX	Units		
Primary Inductance, L _P	10kHz, 100mV	1.0	2.0	2.5	mH		
Leakage Inductance, L _L	100kHz, 100mV		2.0	3.0	μH		
Interwinding Capacitance, C _{ww}	100kHz, 100mV		69	90	рF		
D.C. Resistance, R _{DC}	<0.1VDC		1.0	2.0			
Volt-time Product, E _T	5kHz, 5V	50			Vµs		

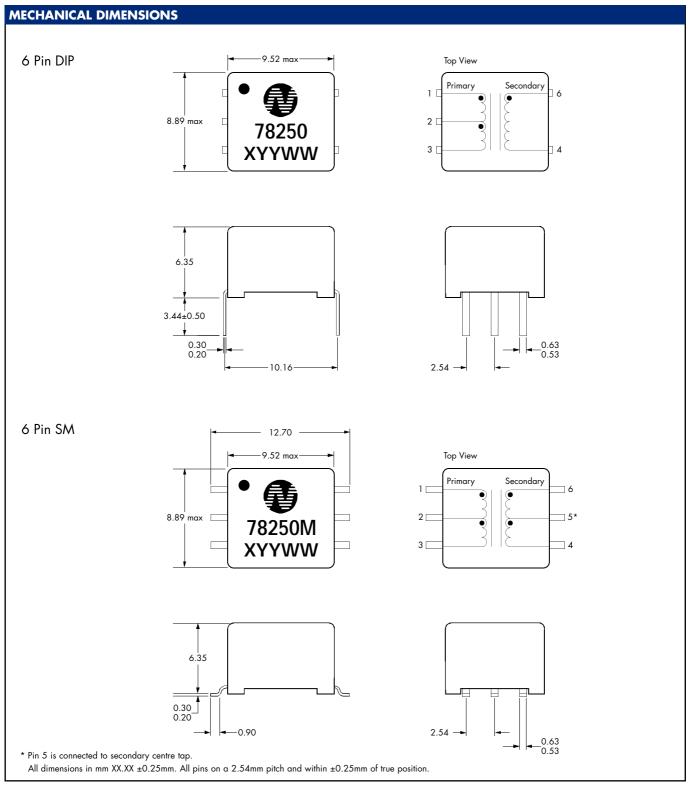
SELECTION GUIDE 78250V/78250MV						
Parameter	Conditions	MIN	TYP	MAX	Units	
Primary Inductance, L _P	10kHz, 100mV	1.0	2.0	2.5	mH	
Leakage Inductance, L	100kHz, 100mV		35	40	μH	
Interwinding Capacitance, C _{ww}	100kHz, 100mV		9	12	pF	
D.C. Resistance, R _{DC}	<0.1VDC		1.4	1.8		
Volt-time Product, E _T	5kHz, 5V	50			Vµs	

ABSOLUTE MAXIMUM RATINGS	
Operating free air temperature range	−40°C to 85°C
Storage temperature range	−50°C to 125°C
Lead Temperature 1.5mm from case for 10 seconds	300°C
Peak current I _{PK}	300mA
Isolation voltage 78250(M) (flash tested for 1 second)	1500Vrms
Isolation voltage 78250V(M) (flash tested for 1 second)	4000Vrms

All specifications typical at T_A =25°C.

78250 SERIES

Converter Transformers



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