T1/CEPT/ISDN-PRI TRANSFORMER Quad Port SMT Transformer Module with

IC Side Protection





- Eight transformers in a low profile surface mount package
- Includes IC Side Protection Circuit on each channel to suppress low voltage transients
- Compatible with PMC-Sierra's Comet chip (PM4354)
- Patented "Interlock Base" construction for high reliability
- IC grade transfer-molded package withstands 235°C IR reflow
- Minimum Isolation voltage: 1500 Vrms
- UL 1950 recognized

Electrical Specifications @ 25°C — Operating Temperature 0°C to +70°C								
Part Number	Turns Ratio (Pri:Sec ±5%)		OCL (TOLINAIN)	Cw/w	LL (::II MAX)	Package/		
	TX	RX	(mH MIN)	(pF MAX)	(μΗ MAX)	Schematic		
T9021	1:2.42	1:2.42	0.6 & 0.6	35 & 35	.60 & .60	QTERA		

NOTE: TX = Transmit channel RX = Receive channel

Weight5.0 grams

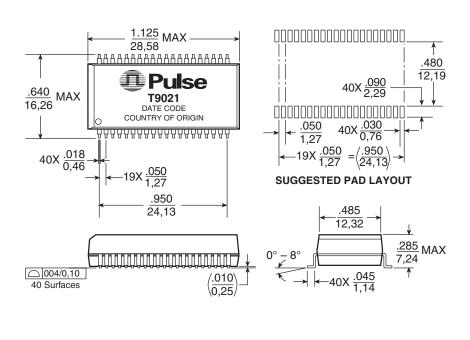
Tape & Reel.....250/reel

Tube15/tube

Mechanical

Schematic

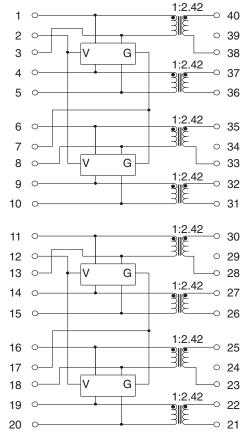
QTERA



Dimensions: Inches

mm

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.05}$



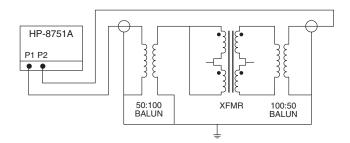
USA 858 674 8100 • Germany 49 7032 7806 0 • Singapore 65 6287 8998 • Shanghai 86 21 54643211 / 2 • China 86 755 33966678 • Taiwan 886 3 4641811

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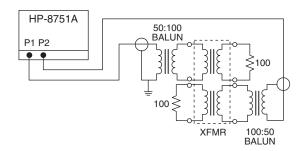


Application Notes

- 1. ET Product All coils have an ET product of 10 V-usec minimum.
- Flammability Materials used in the products are recognized as UL94-VO approved. Products meet the requirements of IEC 695-2-2 (Needle Flame Test).
- Balance Characteristics The transformers meet the requirements for longitudinal balance of FCC part 68.
- Common Mode Rejection Ratio the CMRR for all transformers is better than 50 dB at 1 MHz. A typical test circuit is shown below.



5. Crosstalk Attenuation — In the dual packages, which contain transmit and receive transformers side by side, sufficient crosstalk attenuation is achieved by the inherent characteristics of the toroid cores as well as by their proper positioning. The crosstalk attenuation is typically 50 dB or better from 100 KHz to 10 MHz. This result was established with the test circuit shown below.



6. Return Loss — ITU-T G.703 and European national regulatory documents specify minimum return loss levels. The transformers will allow these limits to be complied within the situations where they are applicable.

Frequency	50-100 KHz	100 KHz-2 MHz	2-3 MHz
Return Loss			
XMIT	9 dB	15 dB	11 dB
REC	12 dB	18 dB	14 dB

7. Surge Voltage Capability – All transformers and chokes meet surge voltage tests according to the most stringent regulatory documents when system designs include the proper voltage and current suppression devices:

Metallic Voltage: 800 V peak, 10/560 μsec Longitudinal Voltage: 2,400 V peak, 10/700 μsec

- Isolation Voltage 100% of transformers are tested during production to the specified isolation voltage level.
- 9. General Information The T9021 is specifically designed for use in 1.544 Mbps (T1), 2.048 Mbps (CEPT) and ISDN Primary rate (PRI) interface applications. They are matched to the majority of the line interface transceiver ICs currently available. Use of the proper transformer allows the interface circuit to comply with ITU-T G.703 and other standards regarding pulse waveform, return loss, and balance.
- 10. Diode Vendor does not recommend connecting directly to Vcc.

For More Information:

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