

This part is OBSOLETE, the SM501-1 is a possible replacement

(Inventory Available letter www.datatronics.com/pdf/sm502-1-inventory-available.pdf)

SURFACE MOUNT TELECOM TRANSFORMER SM502-1

## FEATURES

- Subminature
- Vacuum encapsulated
- UL1459 File No. E173817 Insulation System
- EN60950 Recognized File E173817
- Operating Temperature -20°C to +85°C

## **APPLICATIONS**

- MODEMS
- LAPTOP COMPUTERS

## ELECTRICAL SPECIFICATIONS AT 25°C

- 7.36mm seated Height
- Tested at 4600 Vrms
- Weight  $\approx$  2 gram
- BABT Approval No. CRC 0047
- Storage Temperature -20°C to +85°C



- TELECOMMUNICATIONS
- INSTRUMENTATION

		-		
IMPEDANCE	PRIMARY	600 Ω	SHUNT INDUCTANCE (MIN)	3.8 H
	SECONDARY	600 Ω	SHUNT LOSS (MIN)	7500 Ω
TURNS RATIO		1:1	LEAKAGE INDUCTANCE @1KHz (TYP)	7 mH
INSERTION LOSS @2KHz (MAX)		3.0 dB	UNBALANCE D.C. CURRENT	0 mA
FREQUENCY RESPONSE @200-4000Hz (MAX)		±0.25 dB	DC RESISTANCE* PRIMARY (± 15%)	150 Ω
RETURN LOSS @200-4000Hz (MIN)		24 dB	SECONDARY(± 15%)	150 Ω
LONGITUDINAL BALANCE (MIN)		80 dB	INSULATION RESISTANCE @500VDC (MIN) 1	00 MΩ
DISTORTION (TYP)		-85 dB	DIELECTRIC STRENGTH for 1 minute 4600	Vrms
POWER LEVEL		10 dBM		

Note : for use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech)

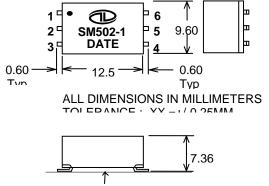
\* SM502-1 Is symmetrical meaning there is no real primary or secondary winding.

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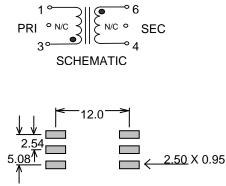
\*\*SM502-1 is identical to SM-LP5002. SM-LP5002 is European version.

Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020D

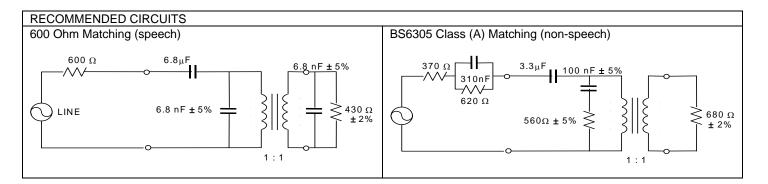
## **OUTLINE DIMENSIONS**



Leads Coplanarity = 0.15mm Maximum



Suggested PCB Lavout



DATATRONIC: 28151 Highway 74, Romoland, CA 92585 Tel: 951-928-7700, Fax: 951-928-7701, E-Mail: ddisales@datatronics.com 499 King's Road, Hong Kong Tel: (852) 2562 3858, (852) 2564 84 77 Fax: (852) 2565 7214, (852) 2563 1290 All specification are subject to change without notice.