June 15, 2005

DATATRONICS

TELECOM TRANSFORMER LM302-1L

FEATURES

- **Subminature, Low Profile**
- **10.7mm seated Height**
- **Vacuum encapsulated**
- **Tested at 6500 VDC**
- **Meets or exceeds requirements of most international safety standards**
- **Operating Temperature -20ºC to +85ºC, Storage Temperature -40ºC to +85º C**



APPLICATIONS

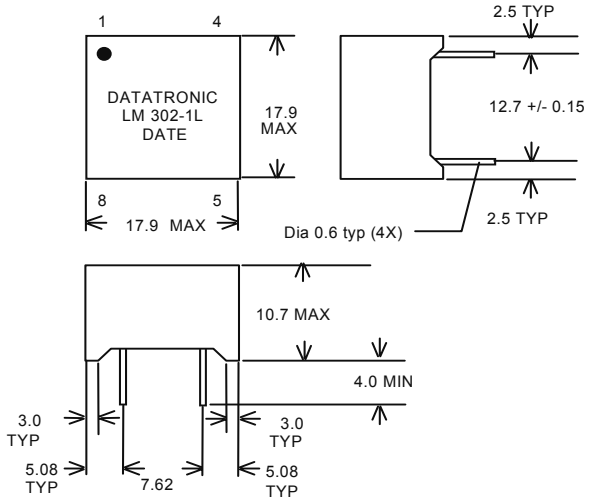
- V.32, V.32 bis and V.34 MODEMS
- INSTRUMENTATION
- TELECOMMUNICATIONS

ELECTRICAL SPECIFICATIONS AT 25°C

IMPEDANCE	PRIMARY	600 Ω	SHUNT INDUCTANCE (MIN)		2.8 H
	SECONDARY	600 Ω	SHUNT LOSS (TYP)		9000 Ω
TURNS RATIO		1 : 1	LEAKAGE INDUCTANCE (TYP) @1KHz		14 mH
INSERTION LOSS @2KHz (MAX)		1.5 dB	DC RESISTANCE** (± 10%)	PRIMARY	66 Ω
FREQUENCY RESPONSE @200-3500Hz (MAX)		-0.3 dB		SECONDARY	66 Ω
WIDE BAND RESPONSE @200-10 000Hz (MAX)		-2.5 dB			
RETURN LOSS @200-4000Hz (MIN)		21 dB	INSULATION RESISTANCE @500VDC (MIN)		100 MΩ
LONGITUDINAL BALANCE (MIN)		80 dB	DIELECTRIC STRENGTH		6500 VDC
DISTORTION @ 1kHz 0 dBM		≤0.1%			

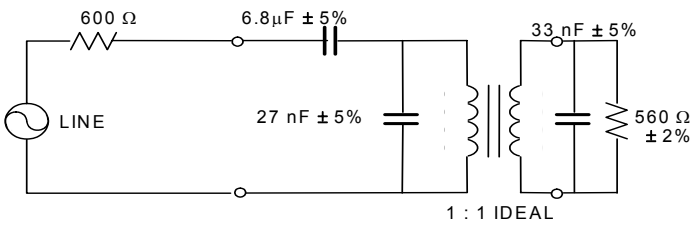
Note : * For use with recommended circuit (BS6305 impedance Class A non-speech or Class B speech)
** LM302-1L Is symmetrical meaning there is no real primary or secondary winding.

OUTLINE DIMENSIONS:

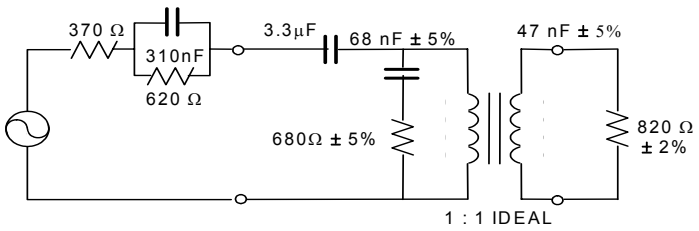


RECOMMENDED CIRCUITS

600 Ohm Matching (speech)



BS6305 Class (A) Matching (non-speech)



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All specifications are subject to change without notice.