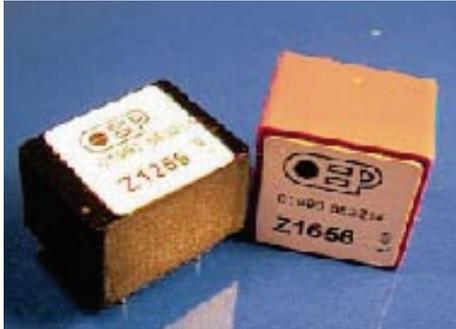


56kBit Modem Transformers

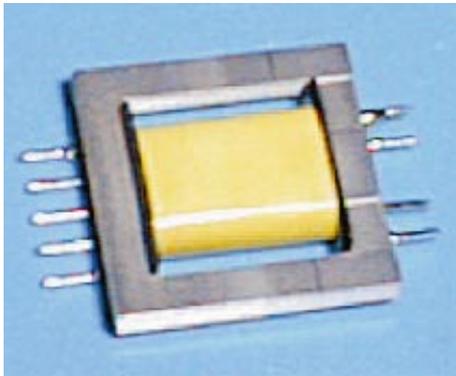


General

The advent of high-speed 56kBit modems has necessitated the design of Line Isolation Transformers that are capable of providing extremely low distortion across a wide frequency range. OEP offers the user a number of different variants, with industry standard pin outs, from which to select a device to satisfy particular technical and commercial considerations.

Construction

With the exception of the SMD PC Card device, P/N PC3456 these transformers are designed for conventional PCB mounting. The epoxy resin encapsulation provides reinforced insulation to meet the requirements of EN60950 / EN41003 and BABT approvals. Double section bobbins are used except for the Z1656/4 and PC3456 versions which are concentrically wound on single section bobbins for closer coupling of the windings thus providing extremely low leakage inductance figures.



Characteristics

Through Hole Versions

Type No.	Size (mm)	Return Loss (dB) 200-4kHz	Insertion Loss (dB) @ 1kHz	Frequency Response (dB)	Harmonic Distortion		Isolation Volts RMS	Leakage Induct. (mH)	BABT Approved Number
					400Hz (dB) typical	600Hz (dB) typical			
Z1656	18x18x13 encapsulated	>20	0.80	100-4kHz +/- 0.1dB	-100	-93	3750	19	CR/0125
Z1656/4	18x18x13 encapsulated	>20	0.80	100-4kHz +/- 0.1dB	-88	-91	3750	2.8	CR/0126
Z1612E	18x18x13 encapsulated	>20	1.50	200-4kHz +/- 0.1dB	-83	-93	3750	19.4	CR/0128
Z1256	19x15x11.2 encapsulated	>26	1.25	50-5kHz +/- 0.07dB	-84	-93	3750	14.4	CR/0127

PC Card (SMD) Version

PC3456	23x16x4.5 including pins	>31	4.00	100-5kHz +/- 0.05dB	-97	-104	1500	1.3	Pending
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