International +46 - 176 13930 +46 - 176 13935

Phone

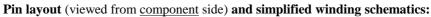
Fax

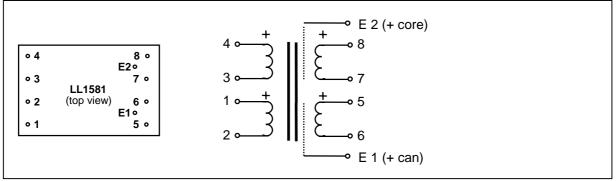
Domestic 0176-13930 0176-13935

LL1581XL Splitting Transformer

In many splitting applications, the splitting transformer must have a high immunity to input common mode signals, to stray magnetic fields from e.g. power transformers and to large ground potential differences in receiving systems. The LL1581XL is developed to handle those types of problems. When designing the LL1581, we have used our well established two coil structure to create a transformer with a high degree of symmetry. The transformer is built up from two primary windings (which should be used in parallel) and two secondary windings. Each secondary winding is built up from two sections, one from each coil. Its own electrostatic shields surround each secondary section. The symmetric structure results in an internal cancellation of noise signals caused by external magnetic field. It also increase immunity to ground noise between secondary systems and reduces the effects of input common mode signals. The transformer is housed in a mu-metal can and is impregnated in solventless epoxy resin.

Turns ratio:

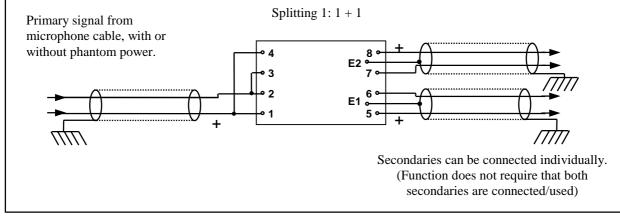




Spacing between pins	Spacing between rows of pins	Offset of earth pins from adjacent row:	Recommended PCB hole diameter:
5.08 mm (0.2")	27.94 mm (1.1")	2.54 mm (0.1")	1.5 mm

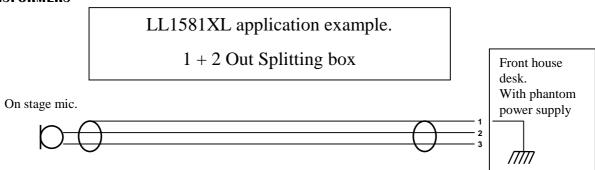
Dimensions (Max. L x W x H above PCB(mm))	38 x 24 x 20.5		
Weight:	61 g		
Static resistance of each primary:	61 Ω		
Static resistance of each secondary (Pins 5 - 6 and pins 7 to 8):	51 and 71 Ω		
Self resonance point :	> 200 kHz		
Distortion	0.1% @ +3 dBU, 50 Hz		
	1 % < @ +13 dBU, 50 Hz		
Frequency response (Ref : -6 dBu, 1kHz)	10 Hz 100 kHz +/- 0.5 dB		
Test arrangement: Parallel input - parallel output . Source 150Ω , load $10~\text{k}\Omega$			
CMRR at 20 kHz (Source 600 ohms, load 2 x 10k)	> 60 dB		
CMRR at 20 kHz from sec. to sec. (Source 600 ohms, load 2 x 10k)	> 40 dB		
Isolation test primary - secondary / secondary - secondary / E1 - E2	4 kV / 2 kV / 1 kV RMS		

Application example. Component side view.



R990105





Before connecting splitting box

With splitting box

