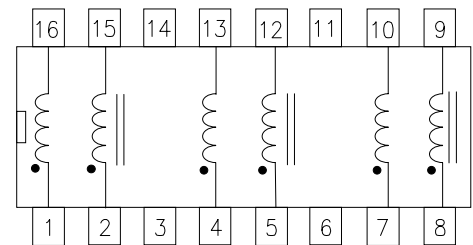


High Frequency Data Line Filter

3 Coils 6 Data Lines

F-137G

Schematic Diagram



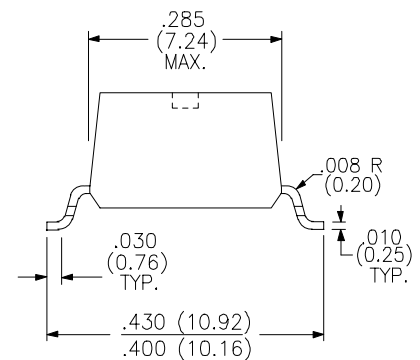
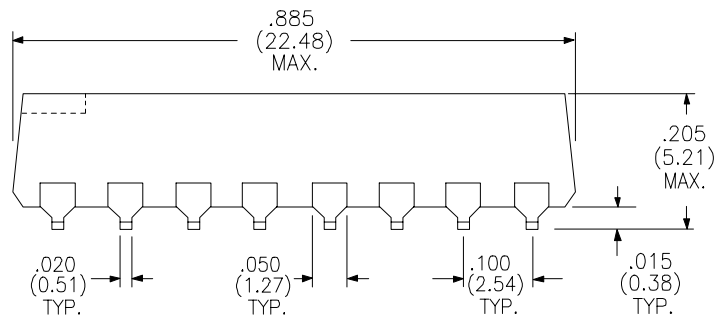
PARAMETER		UNITS
(1) Inductance	85.0 Min.	μ H
(1) Leakage Inductance	0.25 Max.	μ H
(1) Interwinding Capacitance	12 Max.	pF
Primary DC Resistance	0.30 Max.	Ω
Isolation (HI-POT)	500 Min.	V _{RMS}
SRF (Ref.)	20	MHz
Insulation Resistance	10k Min.	M Ω
Power Rating	250	mW
Crosstalk 60 dB @ 5 MHz Nominal 50 dB @ 10 MHz Nominal		
Longitudinal Conversion Loss		
0 - 300KHz	56 dB Min.	
300 KHz - 500KHz	52 db Min.	
500 KHz - 1MHz	46 dB Min.	
1MHz - 5 MHz	36 db Min.	
Operating Temperature Range -40°C TO +85°C		
Storage Temperature Range -55°C TO +125°C		

Turns ratio 1:1 + 0%

Current Rating: 100mA

¹Tested at 100KHz and 100 mV_{RMS}

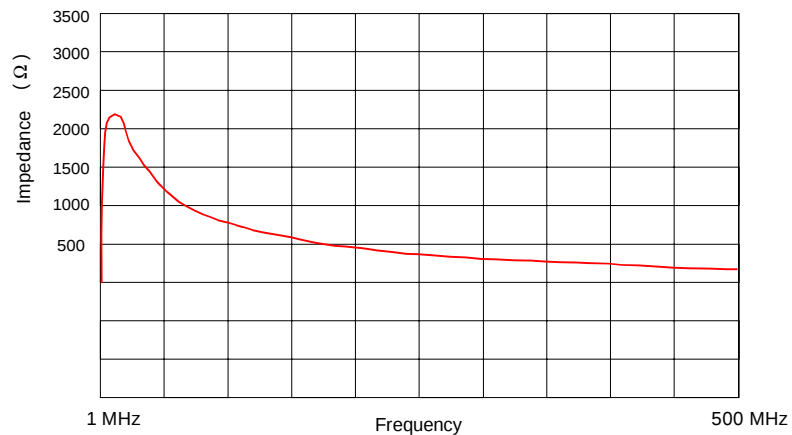
Physical Dimensions in inches (mm)



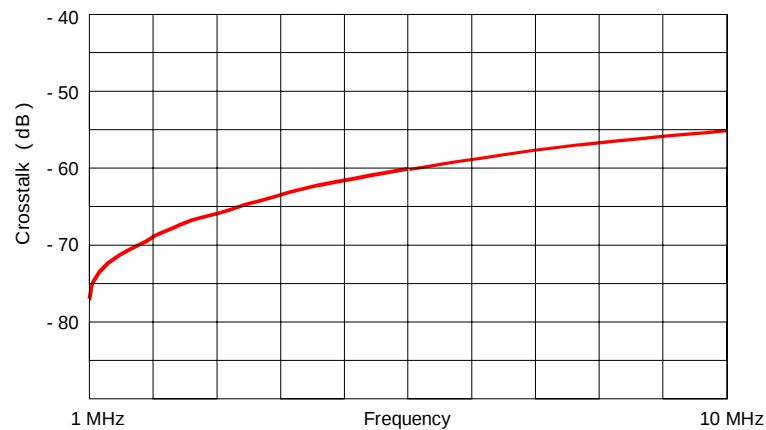
6/30/97

High Frequency Data Line Filter: P / N F-137G

Impedance

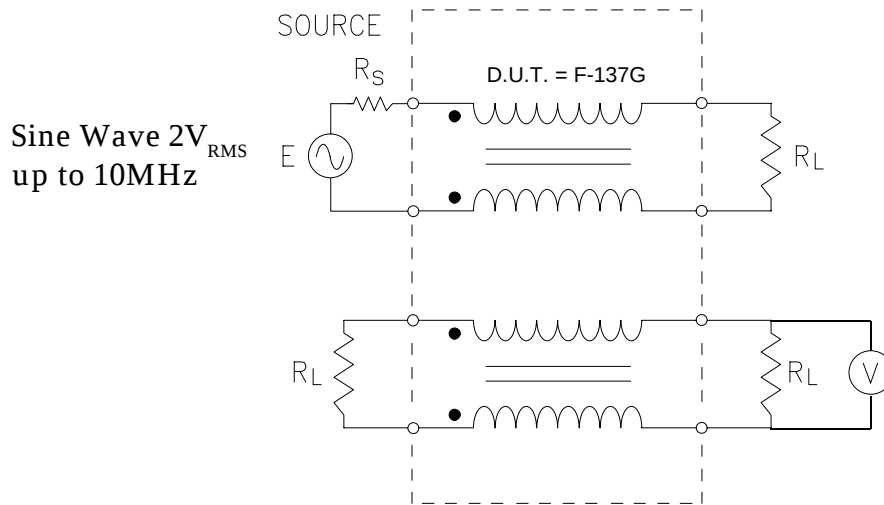


Crosstalk



7/29/97

Crosstalk

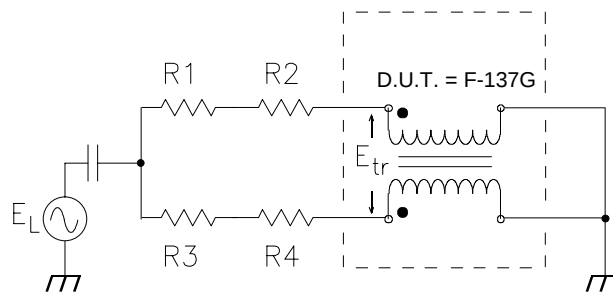


$$R_S = 50 \Omega$$

$$R_L = 135 \Omega$$

$$20 \text{ Log } V/E$$

Longitudinal Conversion Loss



Resistors Matched to within 0.03%

$$R1 + R2 = 67.5 \Omega$$

$$R3 + R4 = 67.5 \Omega$$

$$20 \text{ Log } E_L / E_{Tr}$$