

High Frequency Data Line Filter

3 Coils 6 Data Lines

F-129G

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

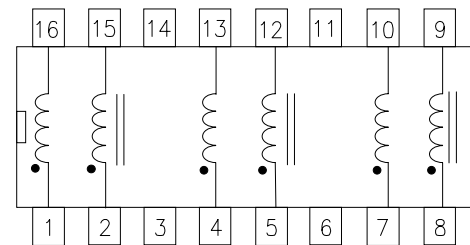
Longitudinal Conversion Loss
 0 - 300KHz 56 dB Min.
 300 KHz - 500KHz 52 db Min.
 500 KHz - 1MHz 46 dB Min.
 1MHz - 5 MHz 36 db Min.

Operating Temperature Range -40°C TO +85°C
 Storage Temperature Range -55°C TO +125°C

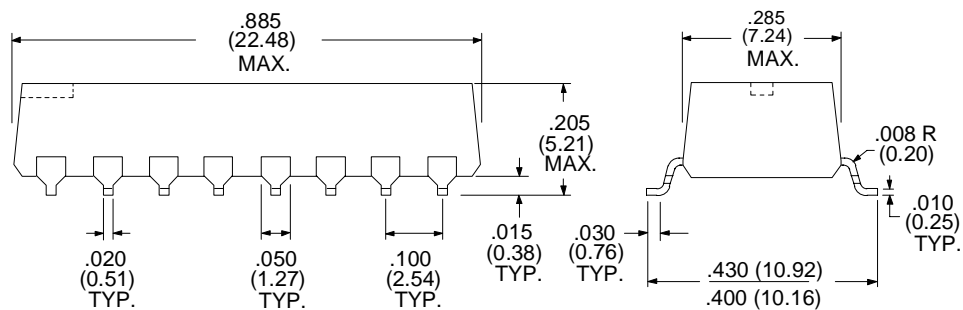
Turns ratio 1:1 + 0%
 Current Rating: 100mA

¹Tested at 100KHz and 500 mV_{RMS}

Schematic Diagram



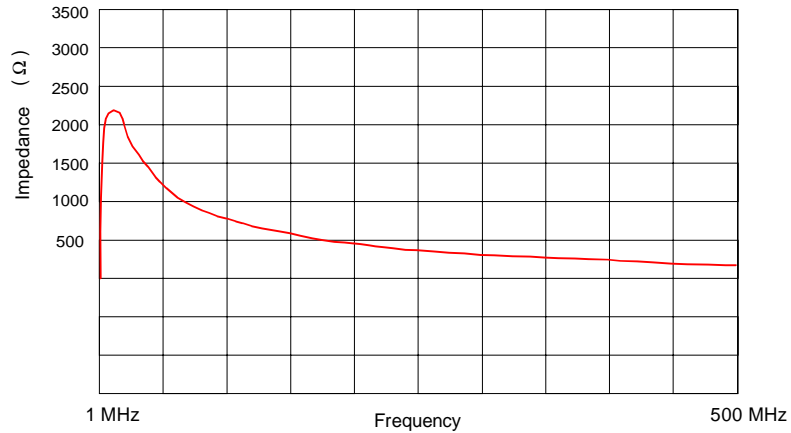
Dimensions in inches (mm)



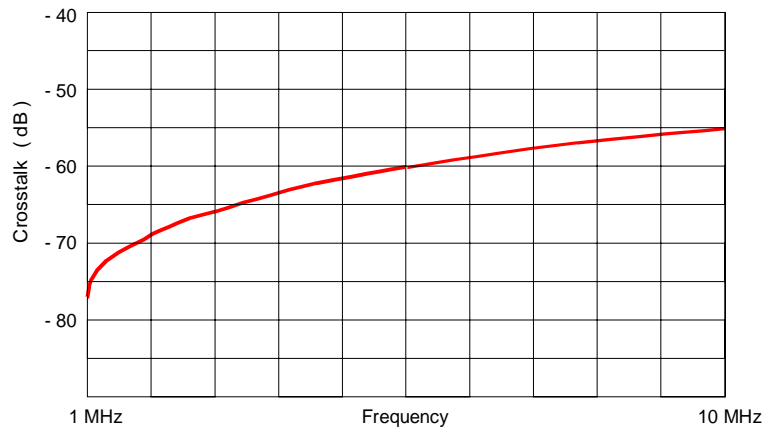
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High Frequency Data Line Filter: P/N F-129G

Impedance

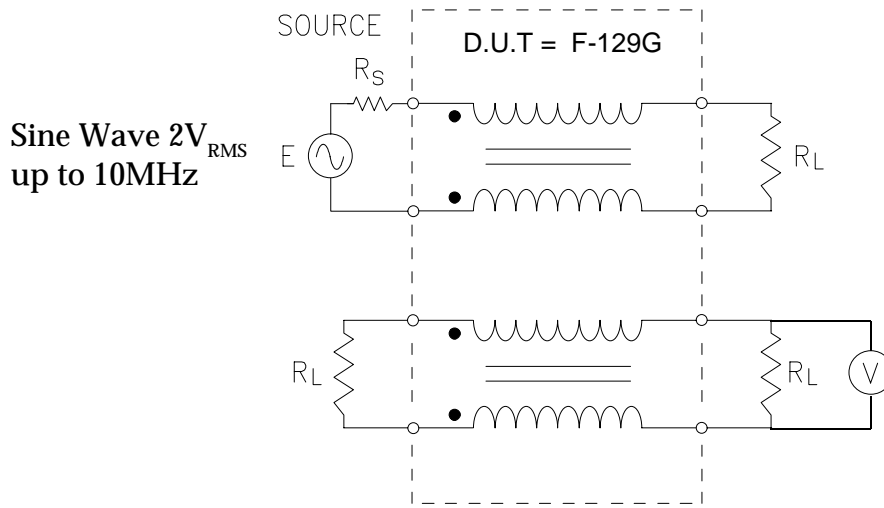


Crosstalk



7/29/97

Crosstalk

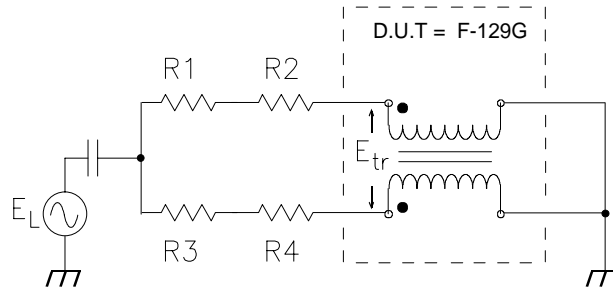


$$R_s = 50 \Omega$$

$$R_L = 135 \Omega$$

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

Longitudinal Conversion Loss



Resistors Matched to within 0.03%

$$R1 + R2 = 67.5 \Omega$$

$$R3 + R4 = 67.5 \Omega$$

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