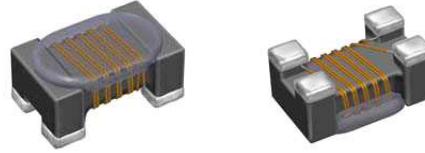


WIREWOUND COMMON MODE FILTER

DESCRIPTION

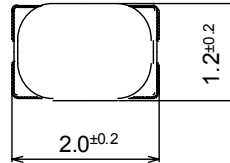
The TOKO NT2012F is a wirewound miniature common mode filter specifically designed to eliminate common mode noise in USB 2.0, IEEE 1394, and LVDS applications. An economical alternative to the TOKO NT2012, the dual winding configuration in a tight form factor provides exceptional EMI reduction in space-constrained environments.



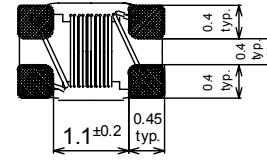
FEATURES

- Miniature footprint: 2.0 x 1.2mm
- Low profile: 1.0mm max.
- Operating temperature: -30°C to +85°C
- Packaged on 2000 piece reels
- Reflow solderable

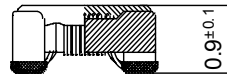
DIMENSIONS



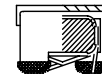
TOP VIEW



BOTTOM VIEW

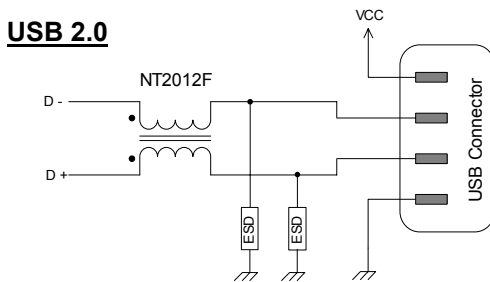


SIDE VIEW

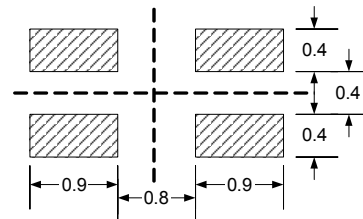


UNITS: mm

APPLICATION EXAMPLE



RECOMMENDED PATTERN



UNITS: mm

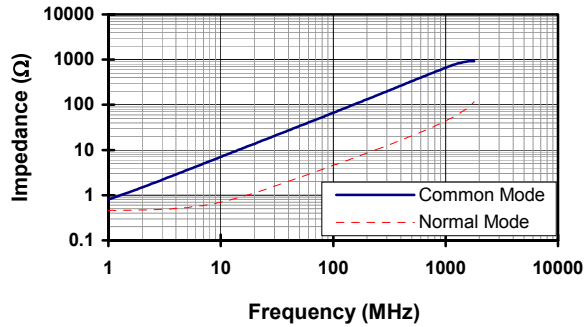
ELECTRICAL SPECIFICATIONS

TOKO Part No.	Common Mode Impedance (Ω) typ.		Common Mode Attenuation (dB)			IDC (A) max.	DCR (Ω) max.
	10MHz	100MHz	10MHz	100MHz	500MHz		
1012AH-1012=P2	7	67	1.0 max.	1.0 min.	6.5 min.	0.33	0.26
1012AH-1007=P2	10	90	1.0 max.	1.5 min.	8.0 min.	0.31	0.31
1012AH-1013=P2	14	120	1.0 max.	2.0 min.	10.0 min.	0.28	0.36

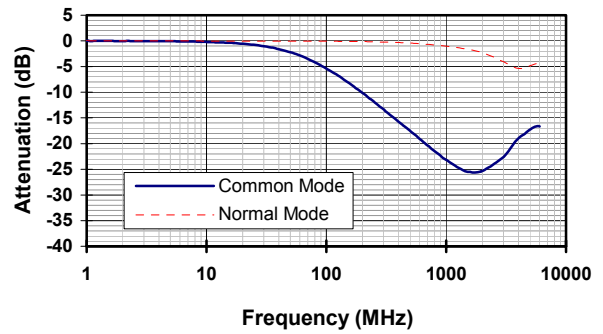
Note: "=P2" is added to each part number to indicate tape and reel packaging.

TYPICAL CHARACTERISTICS

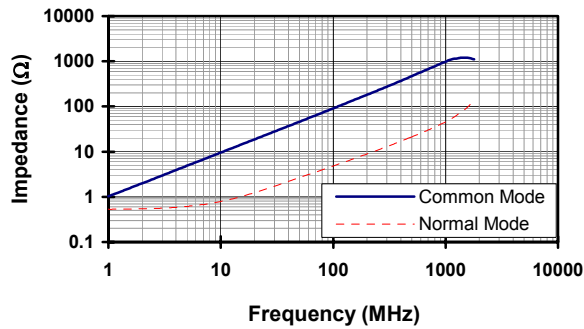
Impedance Response of 1012AH-1012



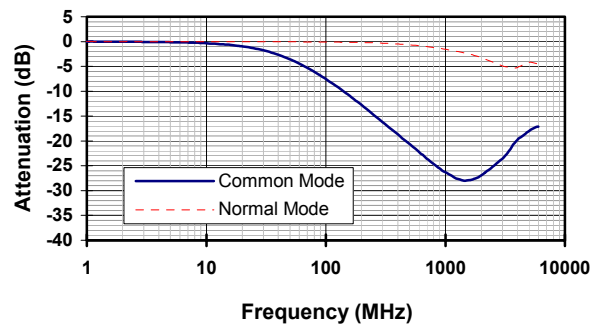
Attenuation Characteristics of 1012AH-1012



Impedance Response of 1012AH-1007

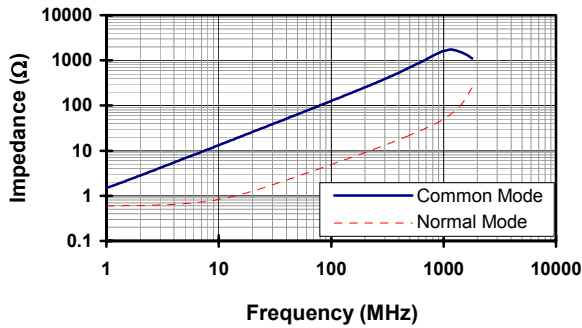


Attenuation Characteristics of 1012AH-1007

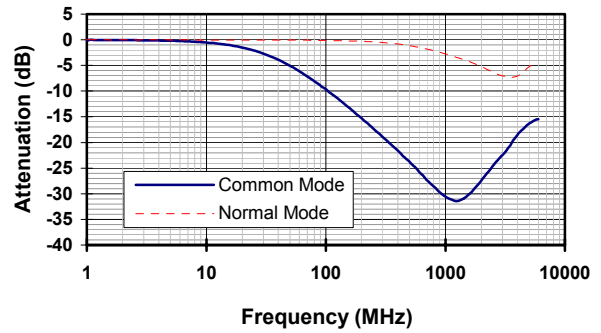


TYPICAL CHARACTERISTICS

Impedance Response of 1012AH-1013



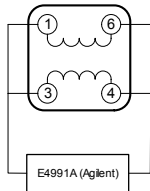
Attenuation Characteristics of 1012AH-1013



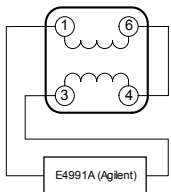
TEST CONDITIONS

Impedance vs. Frequency

TEST CIRCUIT (COMMON MODE)

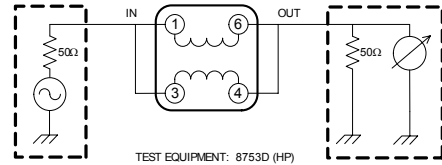


TEST CIRCUIT (NORMAL MODE)

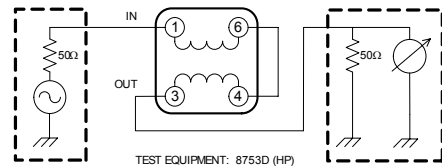


Attenuation vs. Frequency

TEST CIRCUIT (COMMON MODE)



TEST CIRCUIT (NORMAL MODE)



NOTES

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