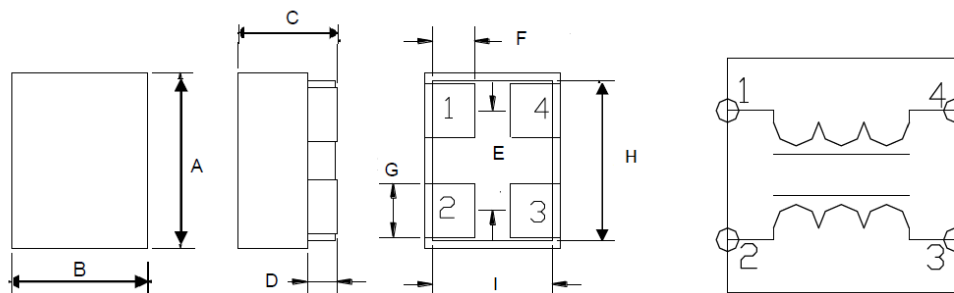


A. Electrical Specifications:

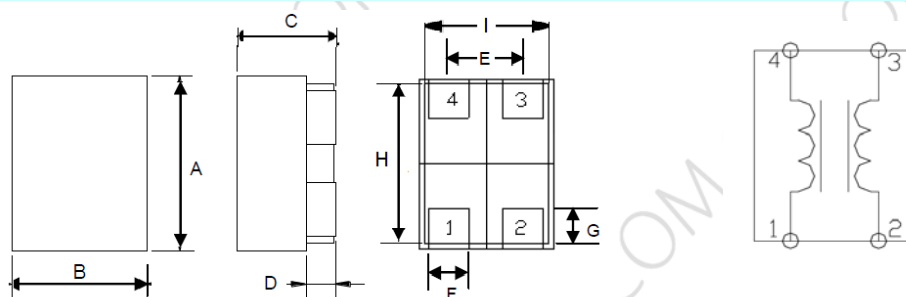
Part No.	Impedance (Ω)	Tolerance	Test Condition (MHz)	DCR (Ω) [1 line]	I DC (mA) Max.	Rated Voltage Edc (V) Max.	Cutoff Frequency (GHz) typ.	Insulation Resistance (mΩ) Min.
CMF03G_900	90	M	100	2.8 ± 30%	100	10	4.0	10
CMF03U_350	35	M, K	100	1.8 ± 30%	100	10	8.0	10
CMF03H_650	65	M, K	100	2.5 ± 30%	100	10	5.0	10
CMF04H_900	90	M, K	100	2.8 ± 25%	100	10	5.0	10

B. Dimensions: mm (Inch)

Series	Size	A	B	C	D	E	F	G	H	I	Packaging
CMF03G/ CMF03U/ CMF03H	03025	0.88 (0.035)	0.68 (0.027)	0.5 (0.020)	0.15 (0.006)	0.5 (0.020)	0.2 (0.008)	0.27 (0.011)	0.82 (0.032)	0.62 (0.024)	10,000EA
Tol.		±0.05 (0.002)	±0.05 (0.002)	±0.05 (0.002)	Typ.	±0.1 (0.004)	±0.05 (0.002)	±0.1 (0.004)	Typ.	Typ.	
CMF04H	0504	1.25 (0.049)	1.00 (0.039)	0.5 (0.020)	0.15 (0.006)	0.55 (0.022)	0.30 (0.012)	0.25 (0.010)	1.19 (0.047)	0.94 (0.037)	4,000EA
Tol.		±0.15 (0.006)	±0.15 (0.006)	±0.15 (0.006)	Typ.	±0.10 (0.004)	±0.1 (0.004)	±0.15 (0.006)	Typ.	Typ.	



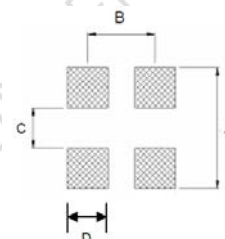
CMF03G/CMF03U/CMF03H



CMF04H

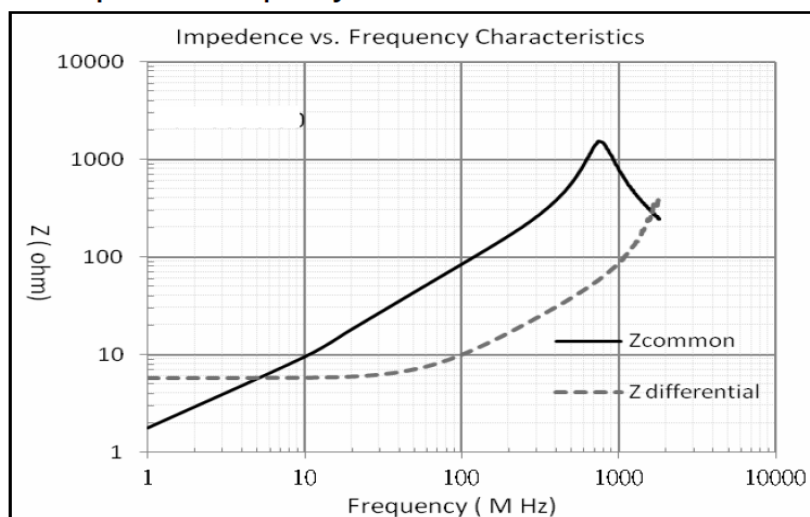
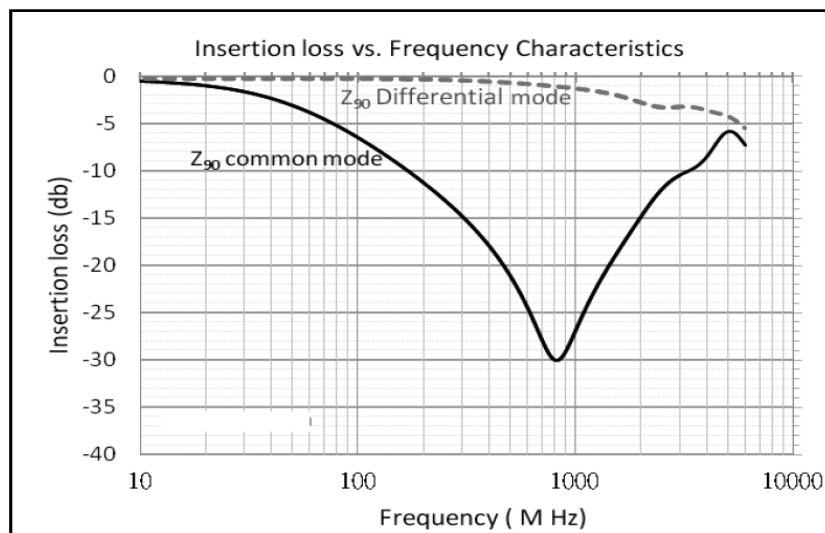
C. Recommended Land Pattern: mm(Inch)

Type	A	B	C	D
CMF03G/ CMF03U/CMF03H	0.9 (0.035)	0.5 (0.020)	0.3 (0.012)	0.3 (0.012)
CMF04H	1.8 (0.071)	0.55 (0.022)	0.6 (0.024)	0.3 (0.012)

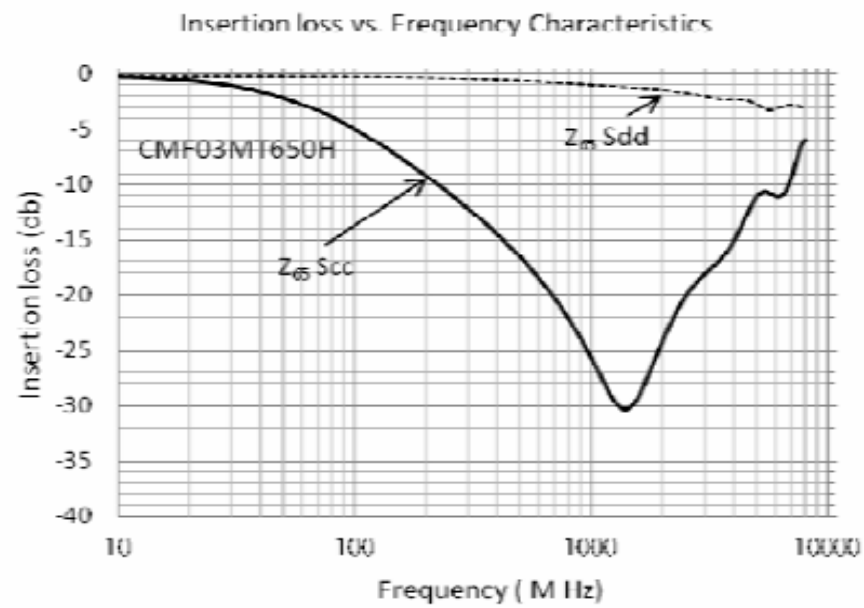
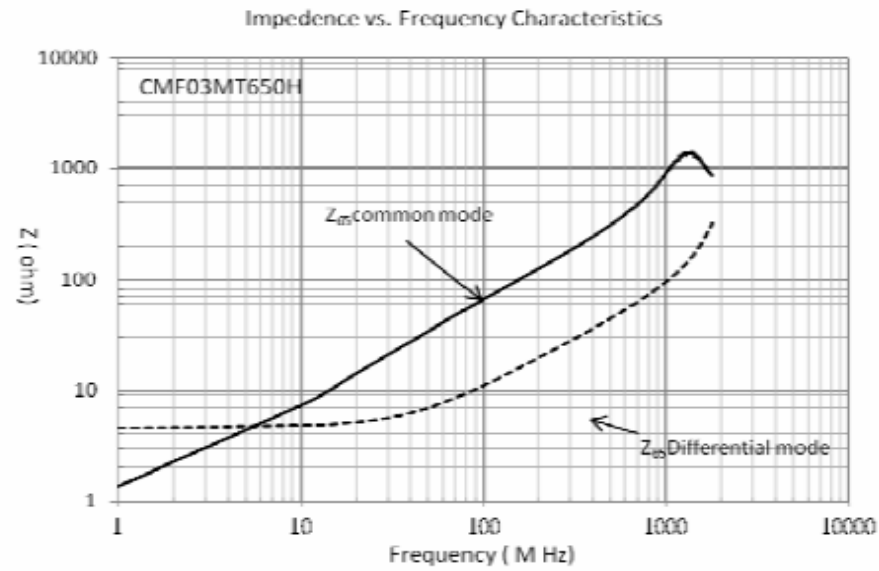


**D. Part Number:**

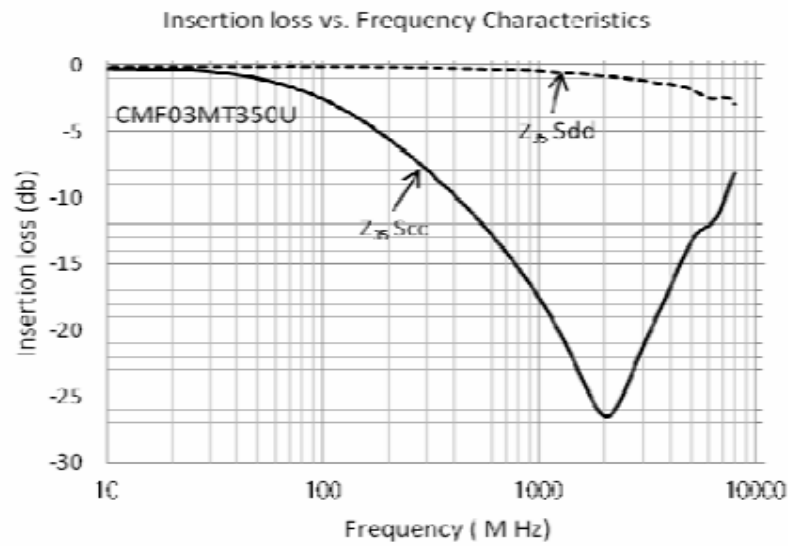
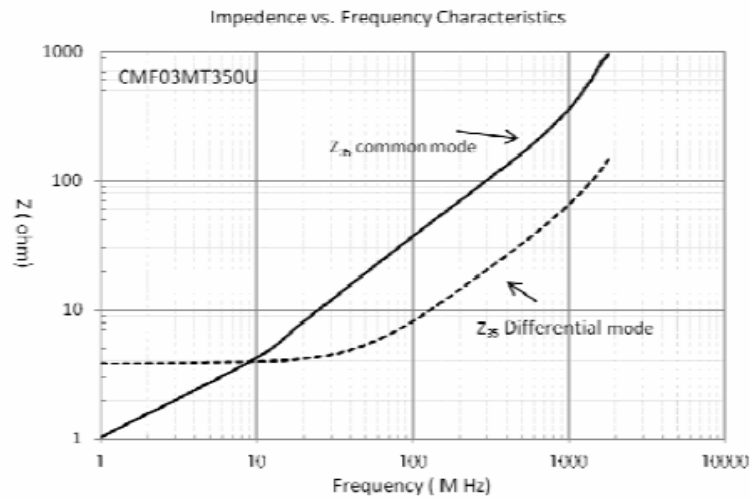
CMF	03/04	G/U/H	-	XXX
Product Type	Dimension		Impedance Tolerance	Impedance
	03: 03025 04: 0504	G: General H: High frequency U: Ultra high frequency	M: $\pm 20\%$ K: $\pm 10\%$	350: 35Ω 650: 65Ω 900: 90Ω

E. Characteristics:**CMF03G****Impedance-Frequency Characteristics****Insertion loss vs. Frequency Characteristics**

CMF03H

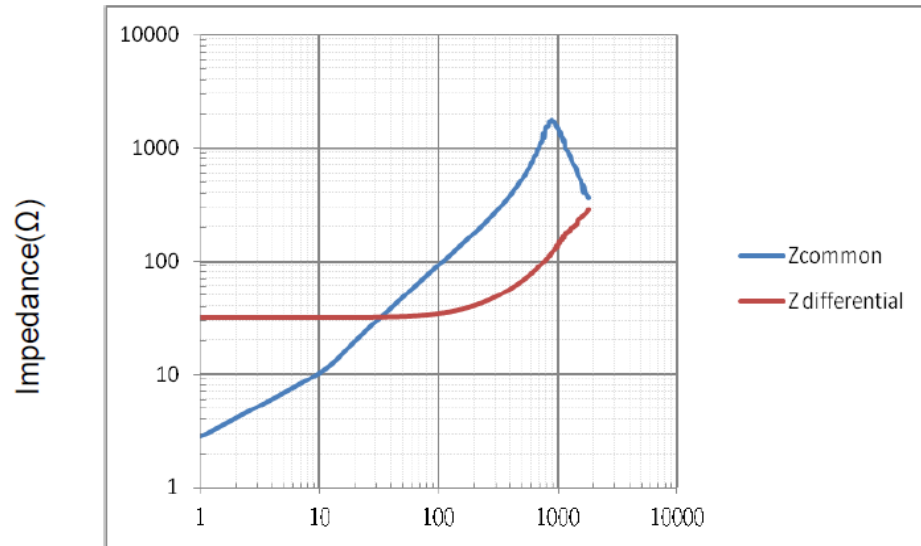


CMF03U

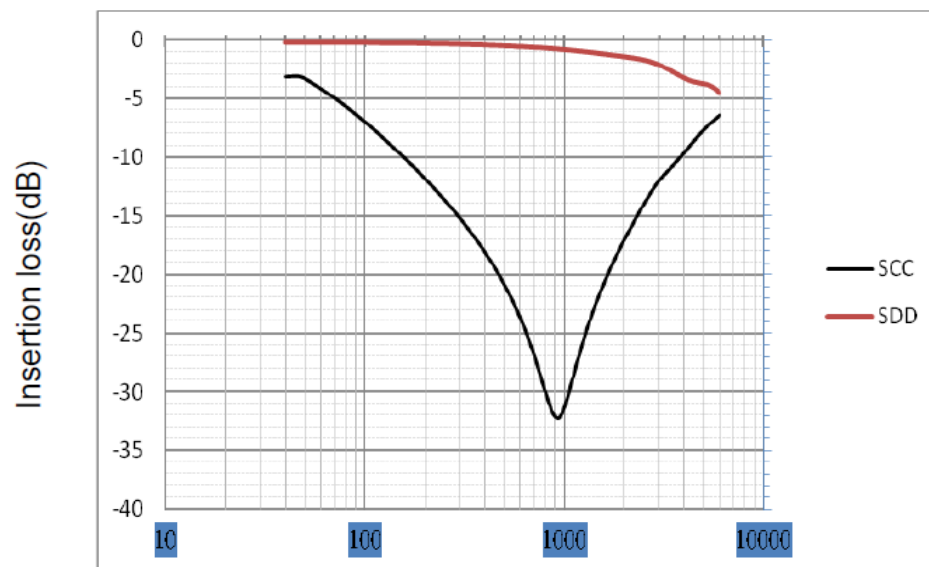


CMF04H

Impedance-Frequency Characteristics



Insertion loss vs. Frequency Characteristics



**F. Features:**

CMF03G	CMF03H/CMF04H	CMF03U
1. The CMF03G (03025) is a compact thin film common mode filter that is use for common mode noise suppression in high speed differential data lines. 2. By providing wide bandwidth (cutoff frequency: 2.1GHz) for differential mode, this product has almost no effect for high speed differential signals and can suppress the common mode noise. 3. This product contains no lead with Ni/Au electrode and supports lead-free soldering.	1. The CMF03H (03025), CMF04H (0504) is a thin-film common mode filter with a wide bandwidth for ultra-high speed differential signal interfaces such as MIPI and display port. 2. By providing a large bandwidth (cutoff frequency > 5GHz) for ultra-high speed differential signal interfaces such as MIPI and display port. CMF03H (03025), CMF04H (0504) suppresses radiation noise due to common mode noise, without affecting the transmission of high-speed differential signals. 3. This product contains no lead with Ni/Au electrode and supports lead-free soldering.	1. The CMF03U (03025), is a thin-film common mode filter with a wide bandwidth for ultra-high speed differential signal interfaces such as USB 3.0 and MIPI interface. 2. By providing a large bandwidth (cutoff frequency > 8GHz) for ultra-high speed differential signal interfaces such as USB 3.0 and MIPI. CMF03U (03025) suppresses radiation noise due to common mode noise, without affecting the transmission of high-speed differential signals. 3. This product contains no lead with Ni/Au electrode and supports lead-free soldering.

G. Applications

CMF03G	CMF03H/CMF04H	CMF03U
1. High Speed Interface (LVDS, IEEE1394 and USB 2.0) in electronics devices. 2. Portable audio, digital cellular phones, DVC, DSC, PDP/LCD/DLP/PJ TVs, DVD players, notebook PCs	1. Ultra-high interface (HDMI, DVI, Display port, MIPI and Serial ATA, etc.) in electronics devices. 2. Notebook PCs, PDP/LCD/DLP/PJ TVs, portable audio, digital cellular phones, DVC, DSC, DVD players, amusement machines, etc.	1. Ultra-high interface (HDMI, USB3.0, Display port, MIPI and Serial ATA, etc.) in electronics devices. 2. Notebook PCs, PDP/LCD/DLP/PJ TVs, portable audio, digital cellular phones, DVC, DSC, DVD players, amusement machines, etc.