



Wire Wound Type Common Mode Filter

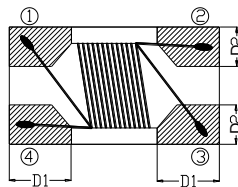
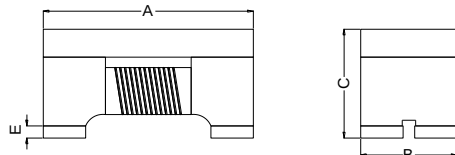
GSF2012F2SF-SERIES-H

1. Features

1. High common mode impedance at high frequency cause excellent noise suppression performance.
2. GSF2012F2SF series realizes small size and low profile. 2.0x1.2x1.2 mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. For USB3.1G2 & HDMI2.0
5. Operating temperature -40~+125°C (Including self - temperature rise)



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	E(mm)
2012F2SF	2.0±0.2	1.2±0.2	1.2±0.2	0.50±0.1	0.51±0.1	0.15±0.1

3. Part Numbering

GSF	2012	F	2	S	F	-	600	T	03	-	H
A	B	C	D	E	F		G	H	I		J

A: Series
 B: Dimension
 C: Material Ferrite Core
 D: Number of Lines 2=2 lines
 E: Type S=Shielded , N=Unshielded
 F: Lead free
 G: Impedance 600=60Ω
 H: Packaging T=Taping and Reel
 I: Rated Current 03=300mA
 J: Control S/N

4. Specification

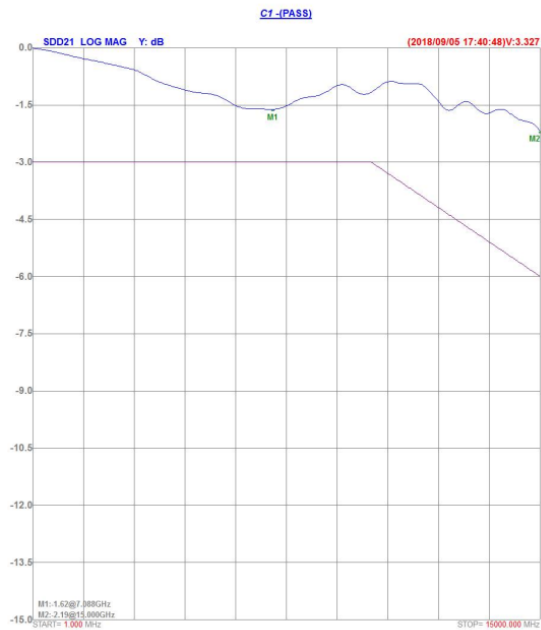
Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA)	Rated Volt. (Vdc)	Withstand Volt. (Vdc)	IR (Ω) min.
GSF2012F2SF-300T04-H	30±25%	100	0.20	400	50	125	10M
GSF2012F2SF-600T03-H	60±25%	100	0.30	300	50	125	10M
GSF2012F2SF-900T03-H	90±25%	100	0.30	300	50	125	10M



Insertion Loss Test

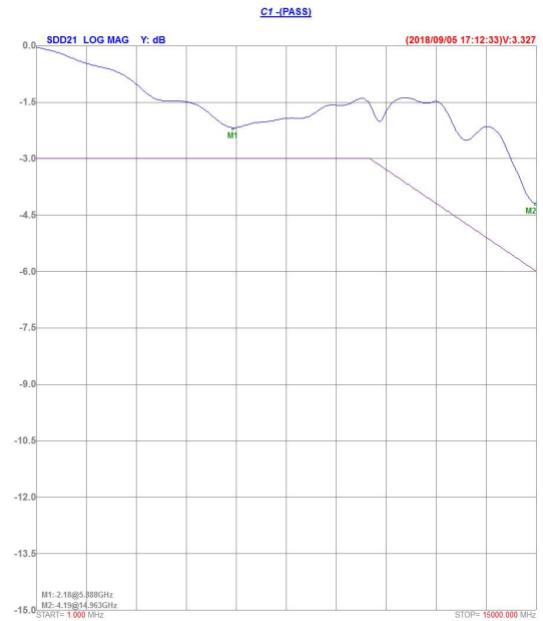
GSF2012F2SF-300T04-H

USB3.1 Choke Insertion Loss Graphic result



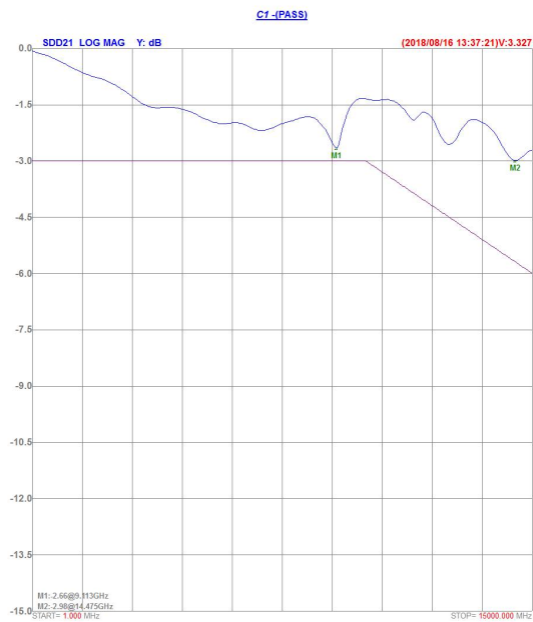
GSF2012F2SF-600T03-H

USB3.1 Choke Insertion Loss Graphic result



GSF2012F2SF-900T03-H

USB3.1 Choke Insertion Loss Graphic result

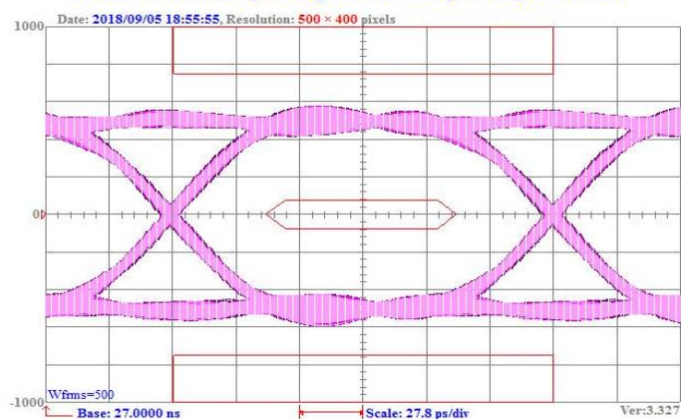




Eye Diagram Graphic Test

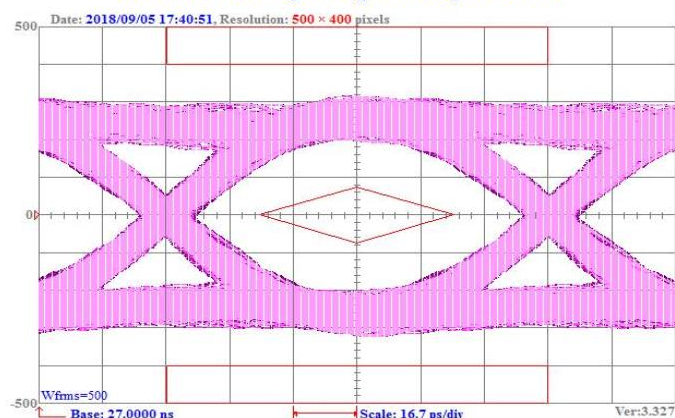
GSF2012F2SF-300T04-H

HDMI2.0 Choke Eye Diagram with-25ps Graphic result



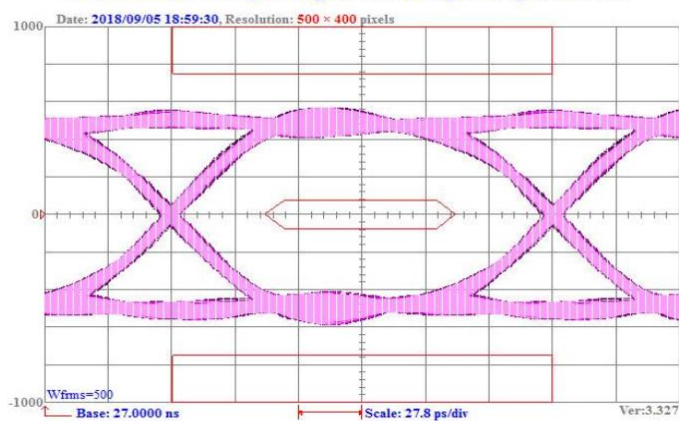
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USB3.1 Choke Eye Diagram Graphic result



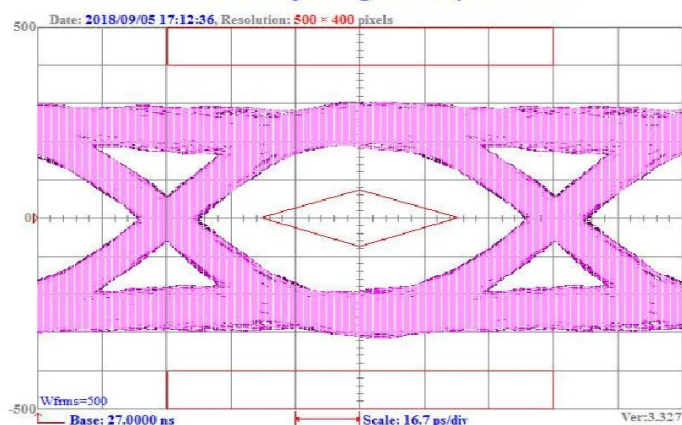
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HDMI2.0 Choke Eye Diagram with-25ps Graphic result



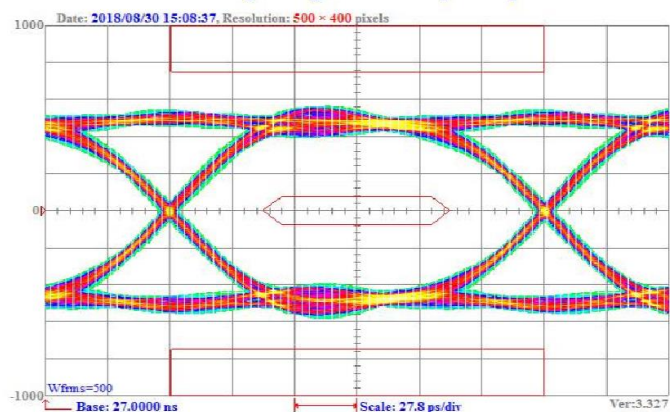
GSF2012F2SF-600T03-H

USB3.1 Choke Eye Diagram Graphic result



GSF2012F2SF-900T03-H

HDMI2.0 Choke Eye Diagram with-25ps Graphic result



GSF2012F2SF-900T03-H

USB3.1 Choke Eye Diagram Graphic result

