

# Wire Wound Type Common Mode Filter

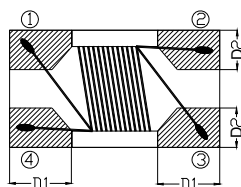
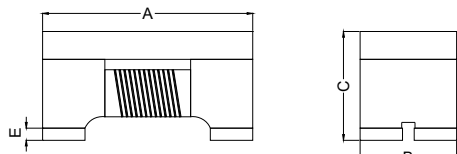
HSF2012F2SF-SERIES-H

## 1. Features

1. High common mode impedance at high frequency cause excellent noise suppression performance.
2. HSF2012F2SF 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

HSF	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

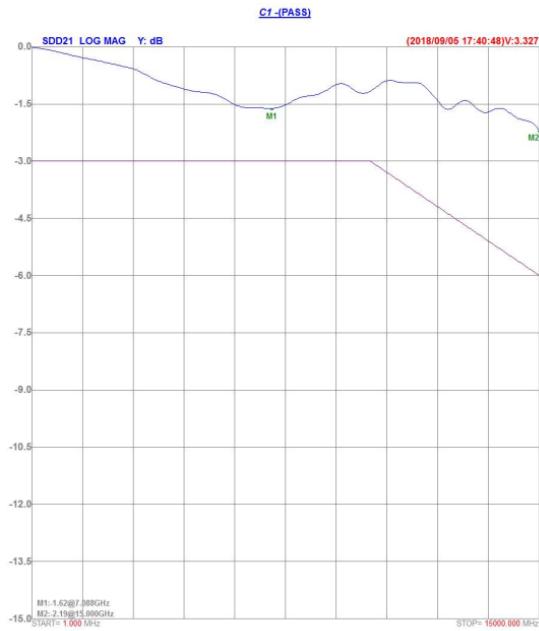
## 4. Specification

TAI-TECH 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.
HSF2012F2SF-300T04-H	30±25%	100	0.20	400	50	125	10M
HSF2012F2SF-600T03-H	60±25%	100	0.30	300	50	125	10M
HSF2012F2SF-900T03-H	90±25%	100	0.30	300	50	125	10M
HSF2012F2SF-121T03-H	120±25%	100	0.35	330	50	125	10M

# Insertion Loss Test

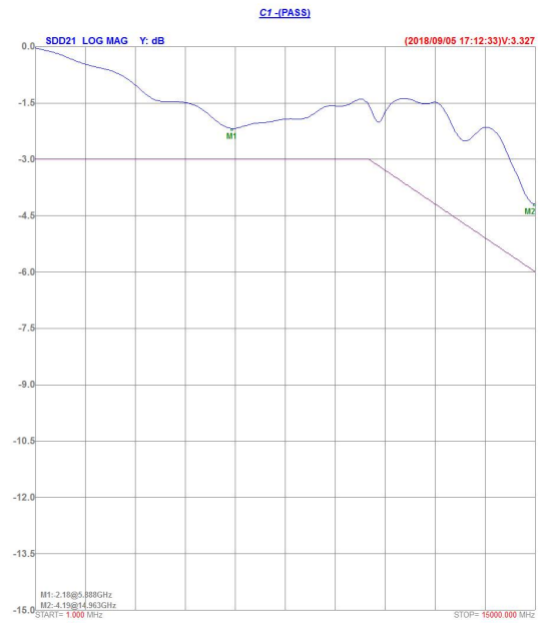
## HSF2012F2SF-300T04-H

USB3.1 Choke Insertion Loss Graphic result



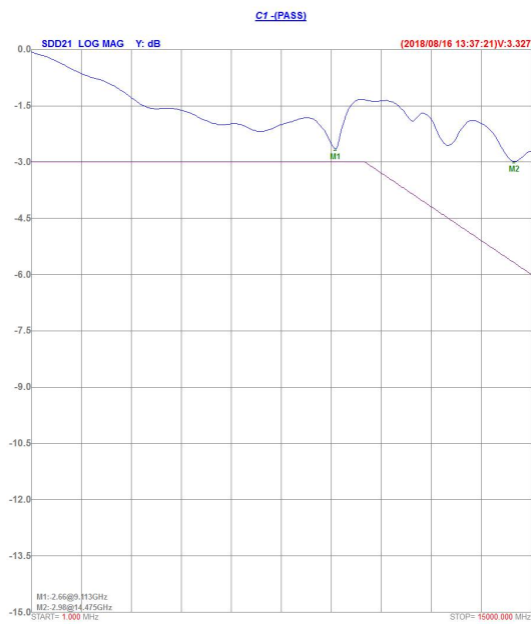
## HSF2012F2SF-600T03-H

USB3.1 Choke Insertion Loss Graphic result



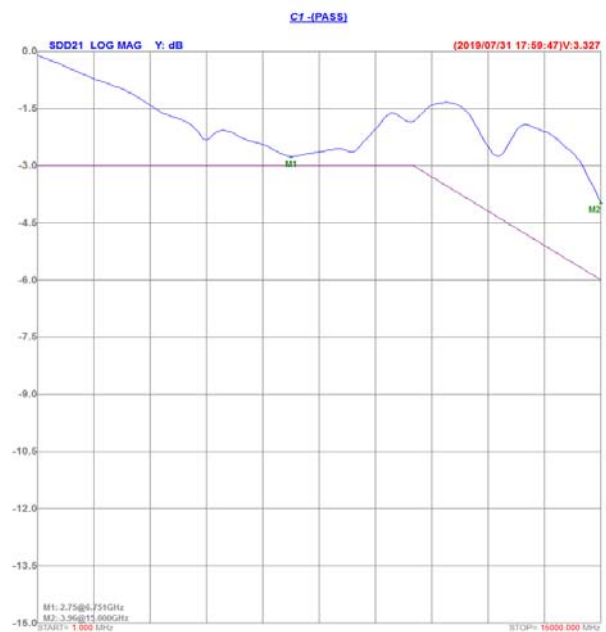
## HSF2012F2SF-900T03-H

USB3.1 Choke Insertion Loss Graphic result



## HSF2012F2SF-121T03-H

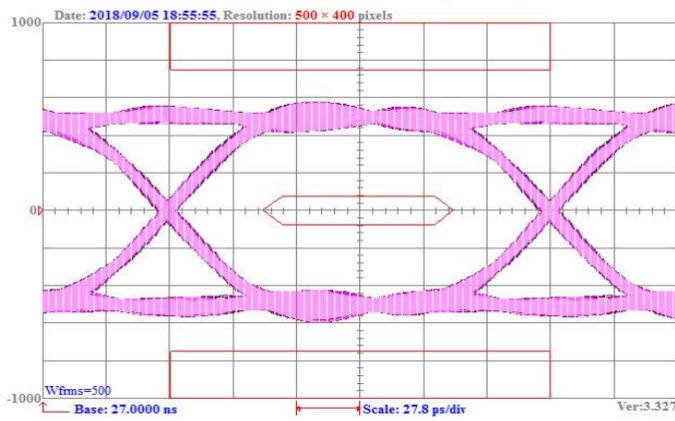
USB3.1 Choke Insertion Loss Graphic result



### Eye Diagram Graphic Test

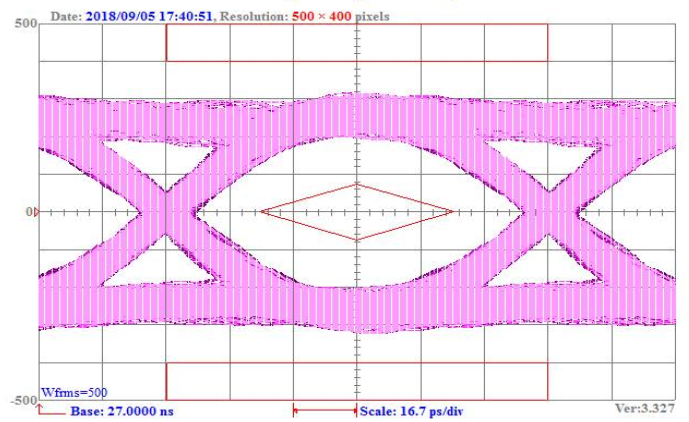
HSF2012F2SF-300T04-H

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



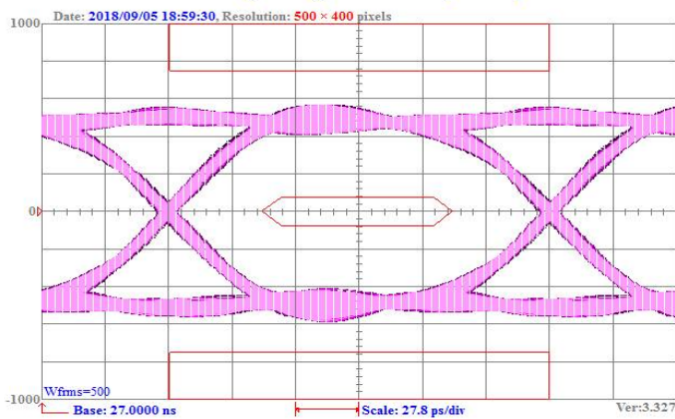
HSF2012F2SF-300T04-H

USB3.1 Choke Eye Diagram Graphic result



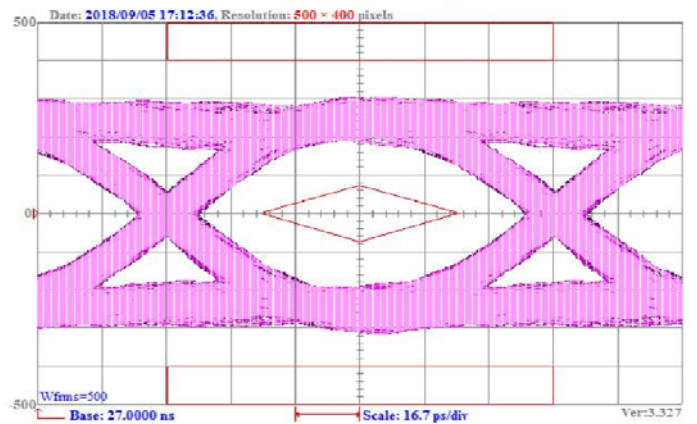
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HDMI2.0 Choke Eye Diagram with-25ps Graphic result



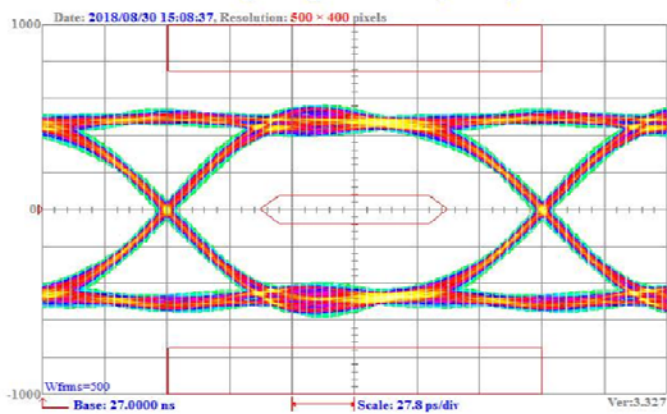
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USB3.1 Choke Eye Diagram Graphic result



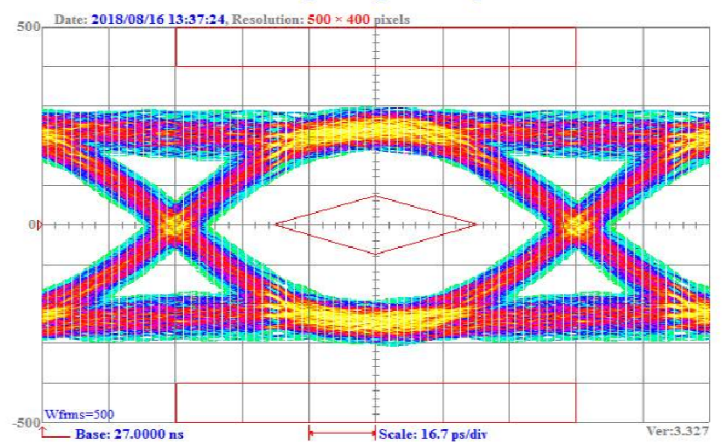
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HDMI2.0 Choke Eye Diagram with-25ps Graphic result



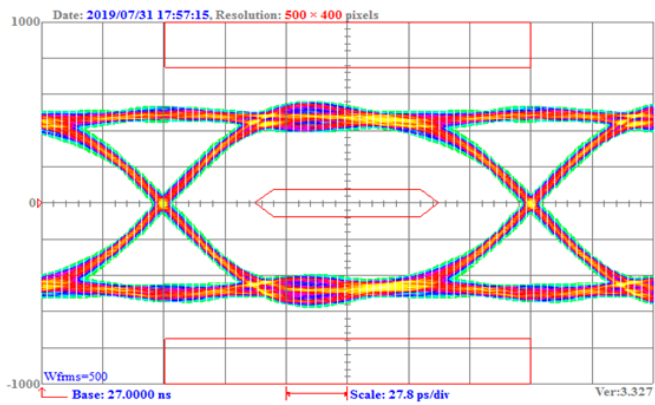
HSF2012F2SF-900T03-H

USB3.1 Choke Eye Diagram Graphic result



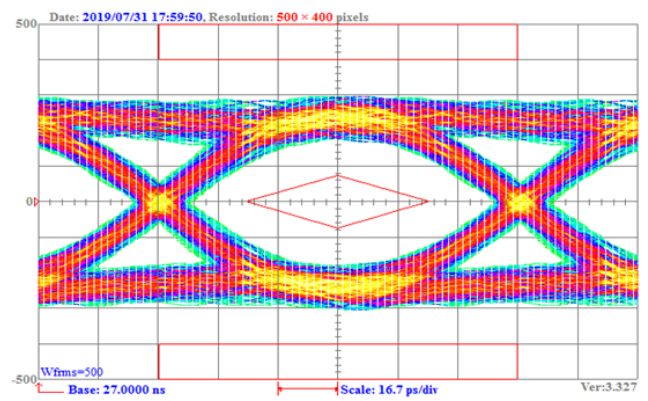
HSF2012F2SF-121T03-H

HDMI2.0 Choke Eye Diagram with 25ps Graphic result



HSF2012F2SF-121T03-H

USB3.1 Choke Eye Diagram Graphic result



5. Schematic Diagram

