

Wire Wound Type Common Mode Filter

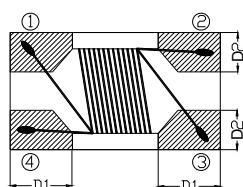
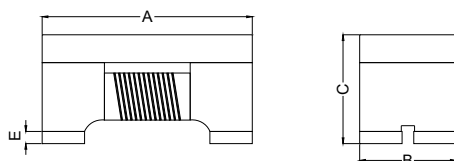
HSF2012F2SF-SERIES-H

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

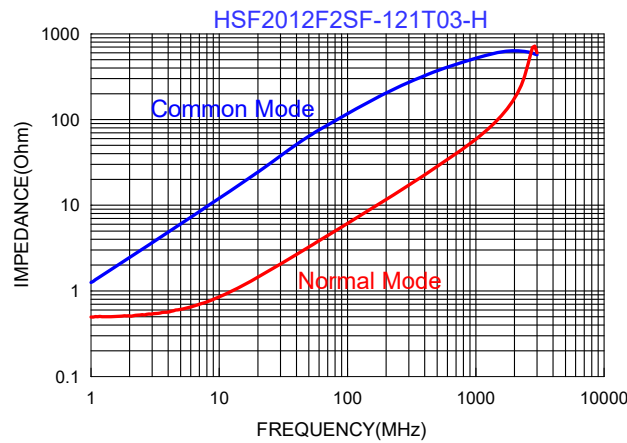
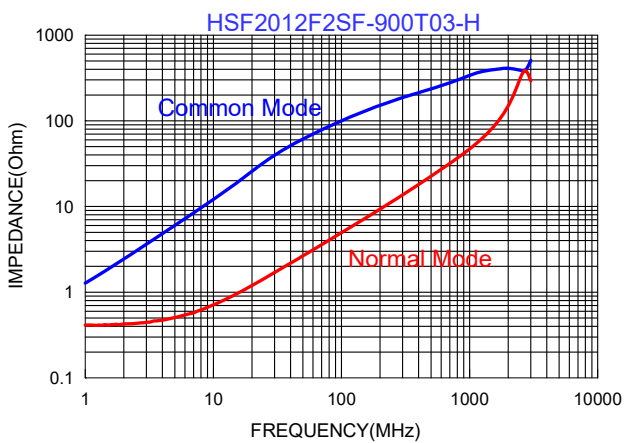
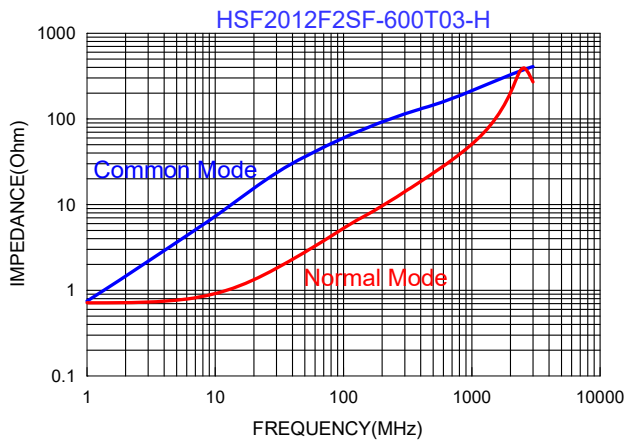
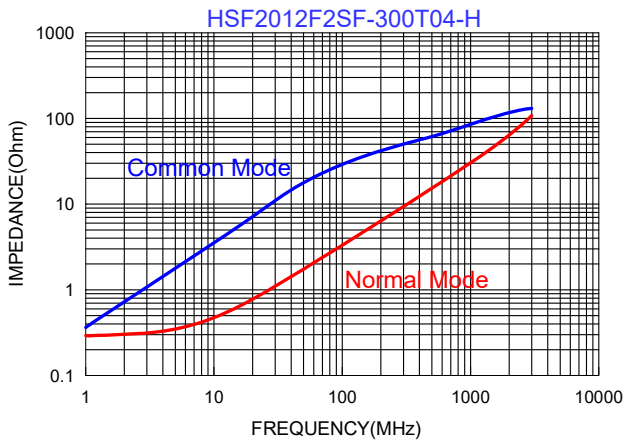
3. Part Numbering

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

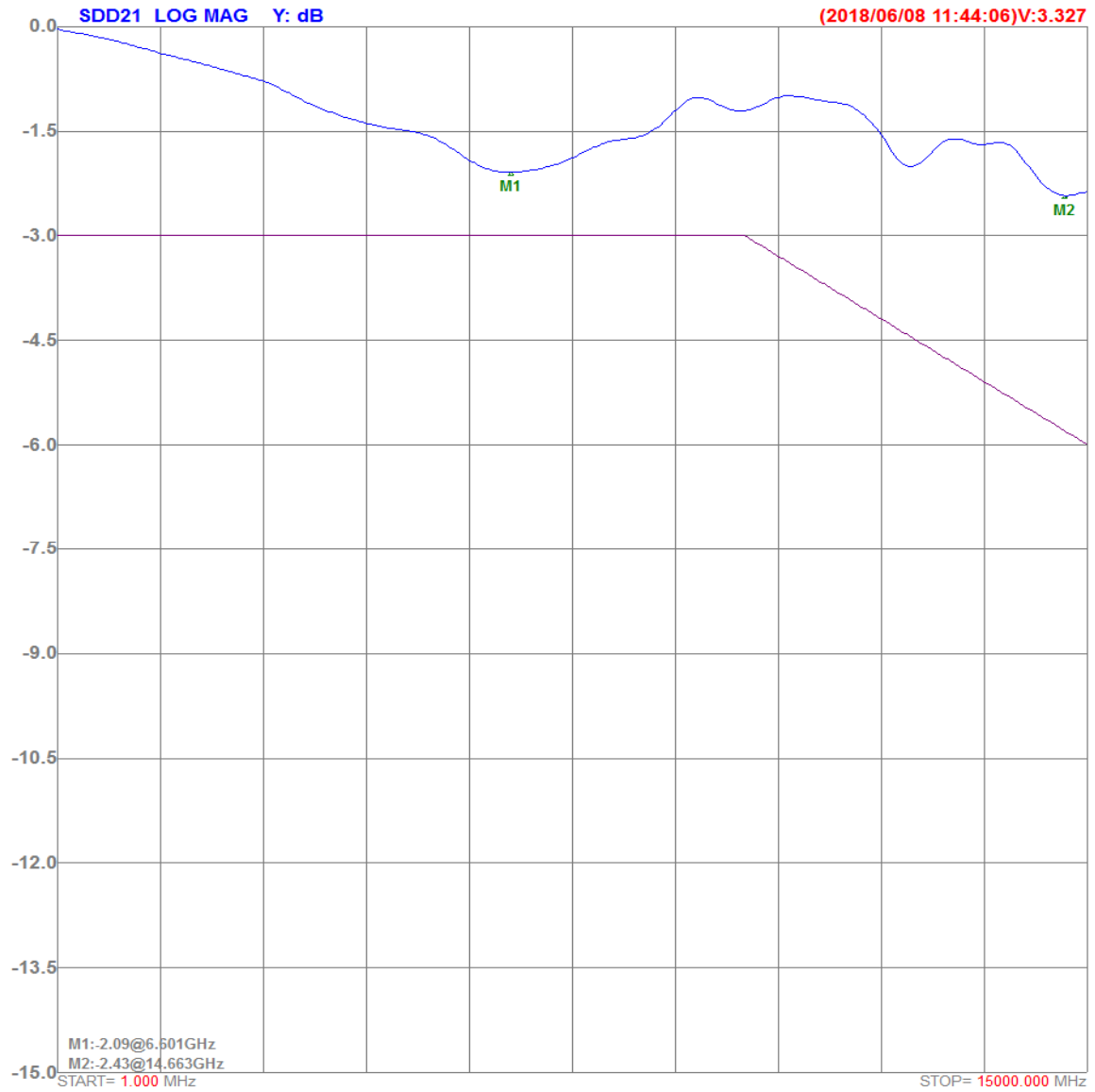
TAI-TECH Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.	Rated Volt. (Vdc) max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
HSF2012F2SF-300T04-H	30±25%	100	0.20	400	50	125	10M
HSF2012F2SF-600T03-H	60±25%	100	0.30	300	50	125	10M
HSF2012F2SF-900T03-H	90±25%	100	0.30	300	50	125	10M
HSF2012F2SF-121T03-H	120±25%	100	0.35	330	50	125	10M



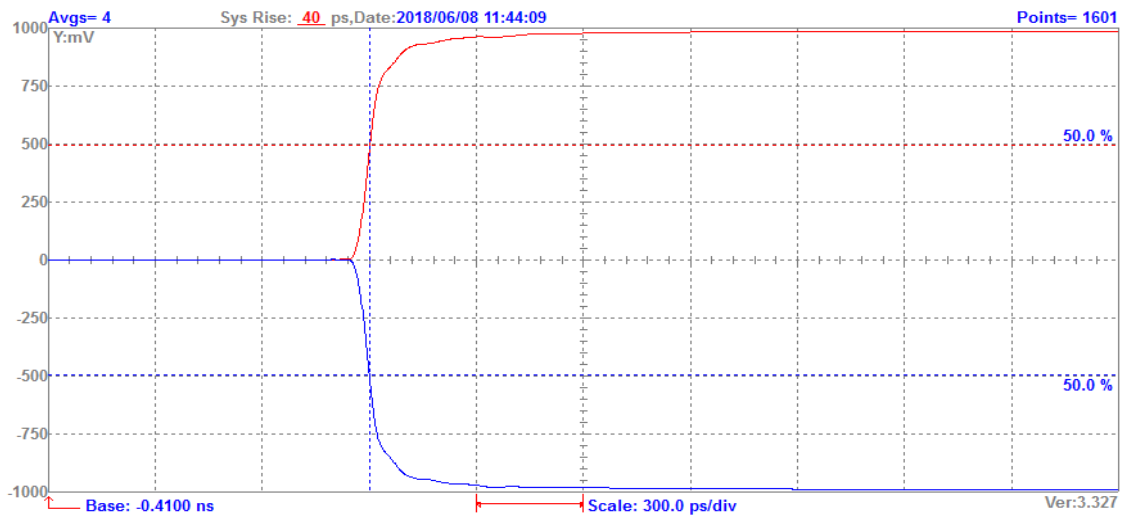
HSF2012F2SF-300T04-H

USB3.1 Choke Insertion Loss Graphic result

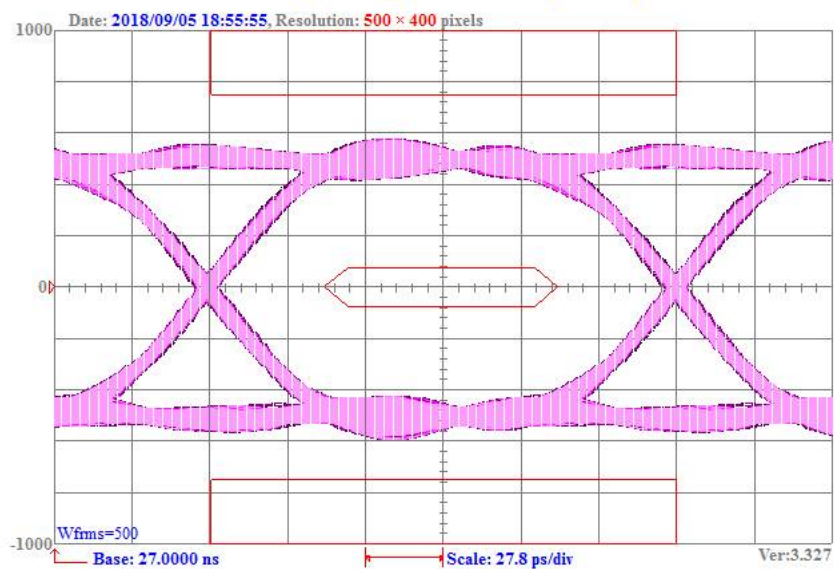
C1 -(PASS)



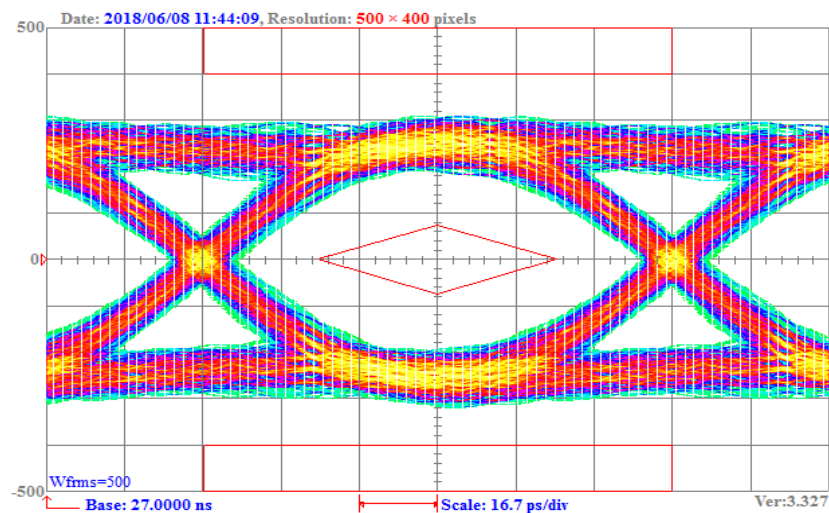
USB3.1 Choke Intra Skew Graphic result



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



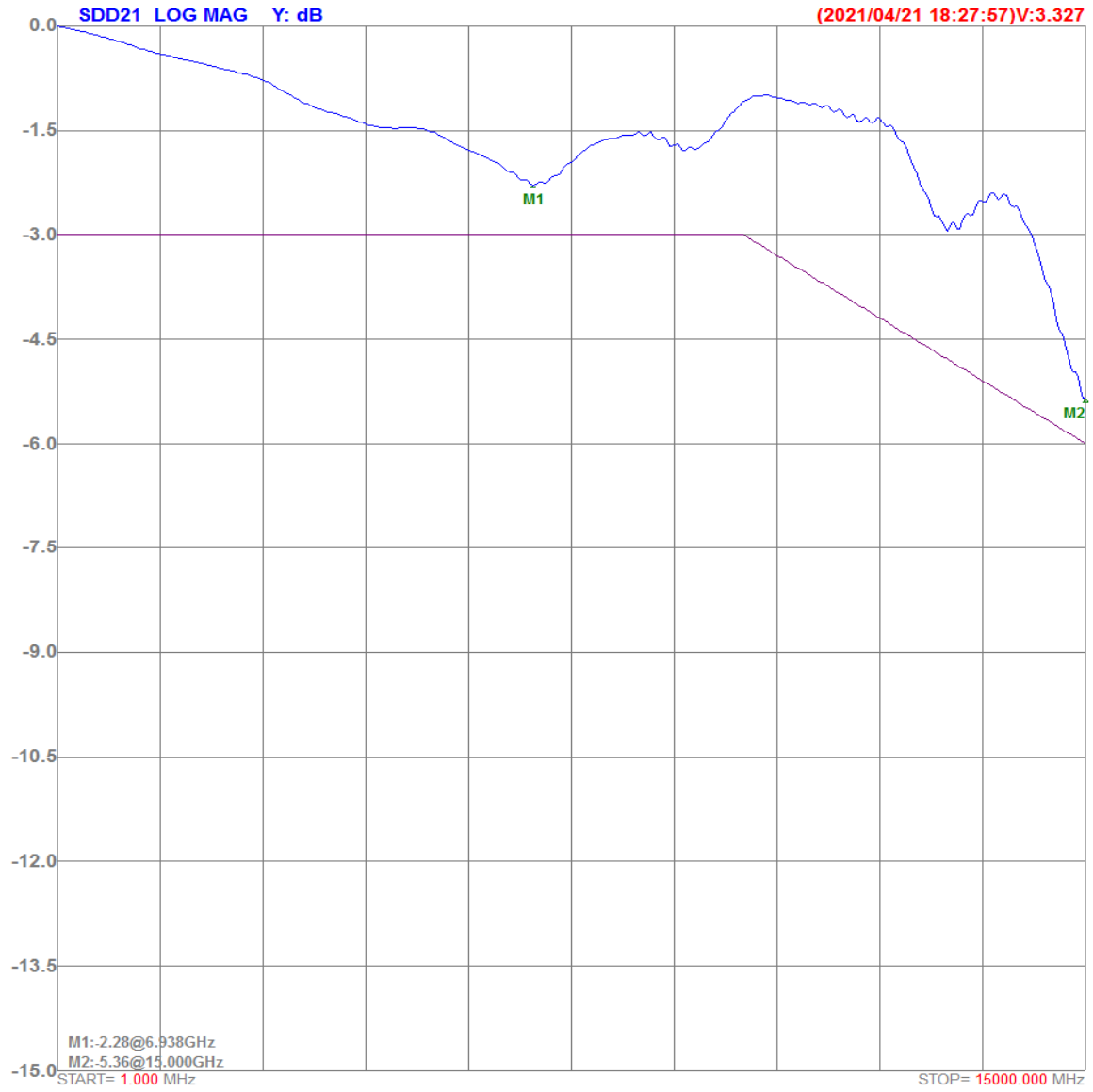
USB3.1 Choke Eye Diagram Graphic result



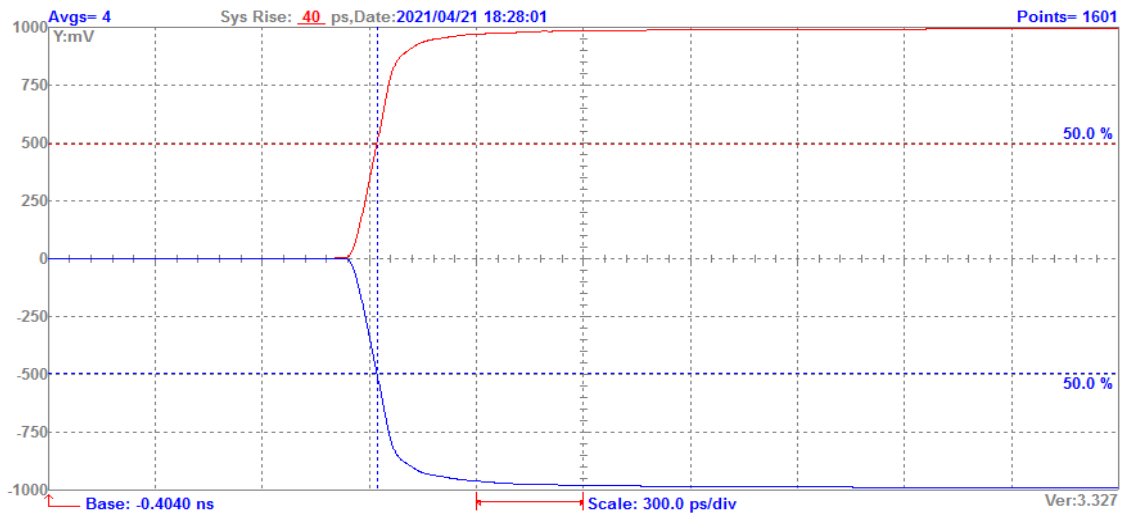
HSF2012F2SF-600T03-H

USB3.1 Choke Insertion Loss Graphic result

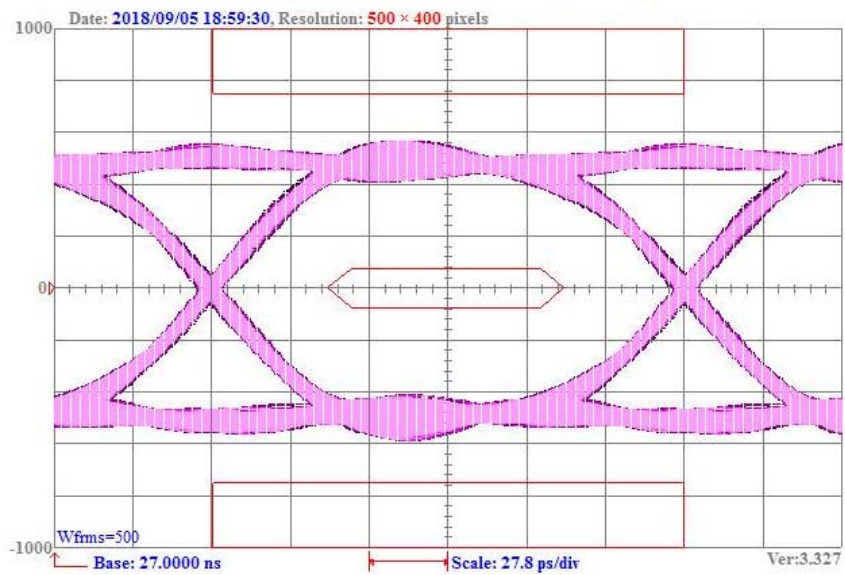
C1 -(PASS)



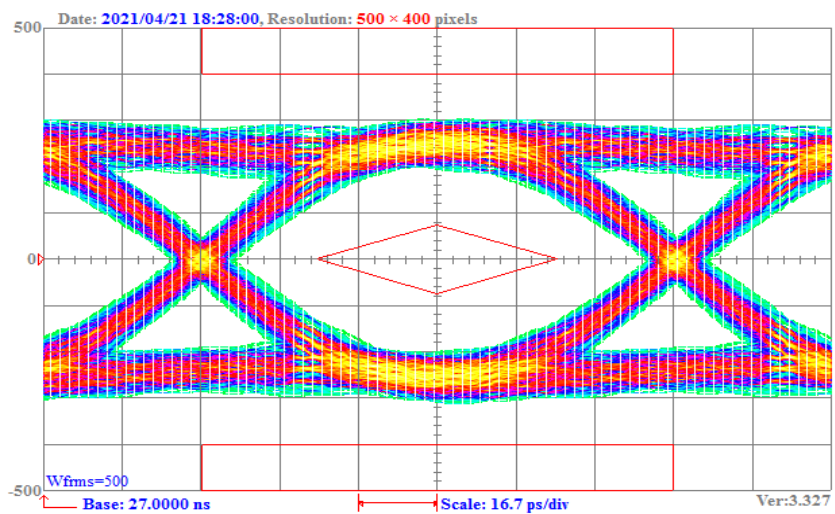
USB3.1 Choke Intra Skew Graphic result



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



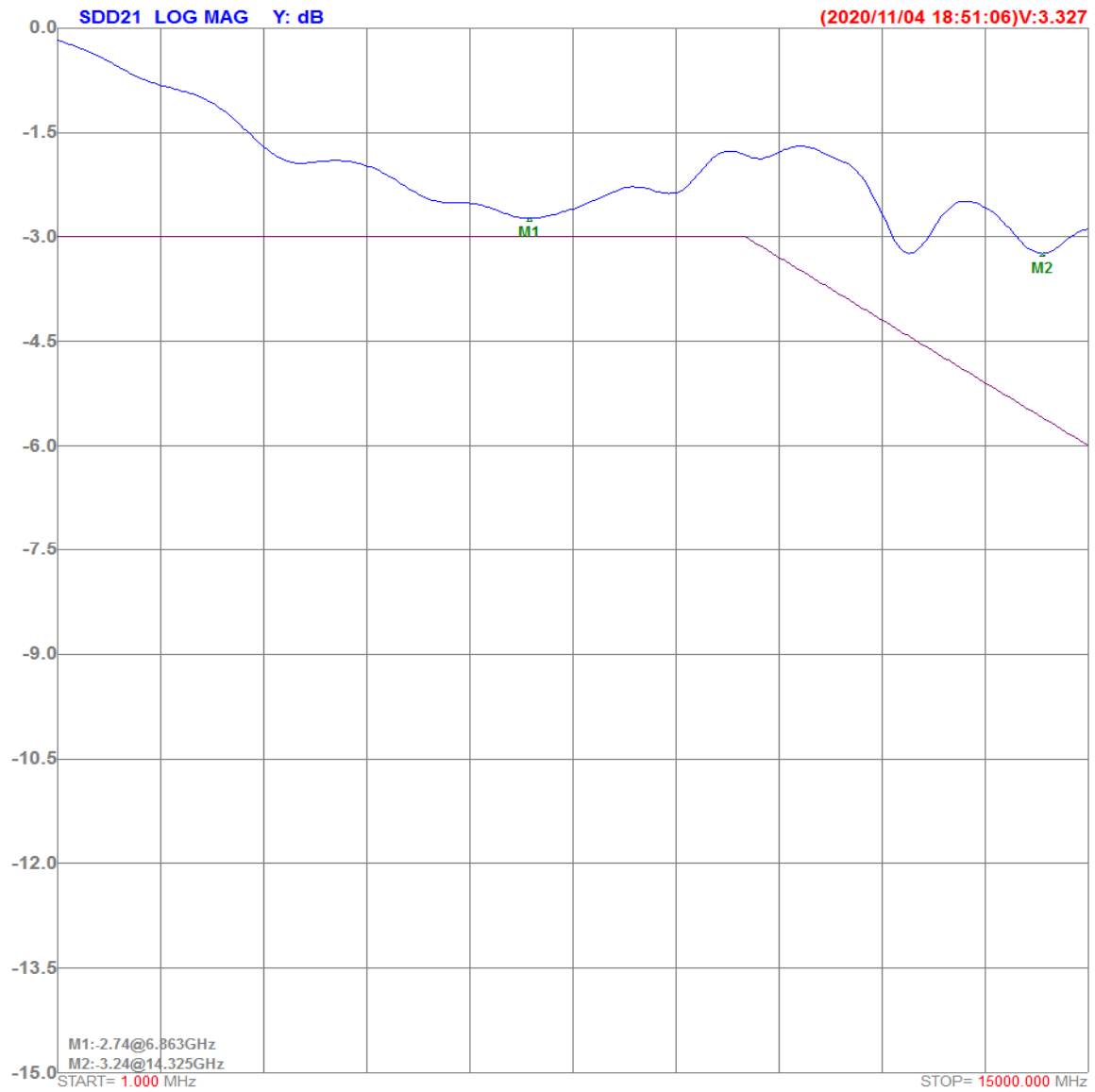
USB3.1 Choke Eye Diagram Graphic result



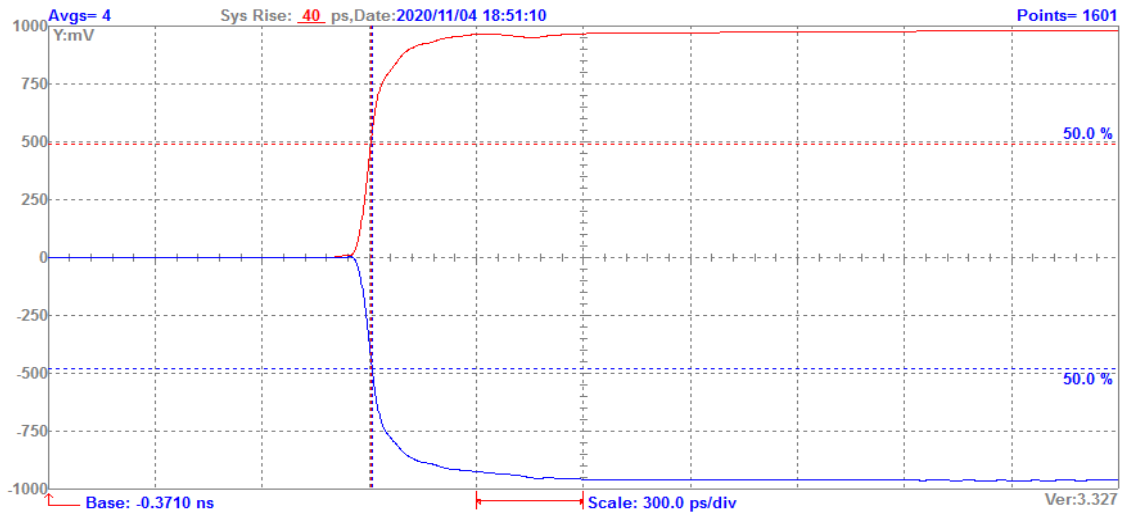
HSF2012F2SF-900T03-H

USB3.1 Choke Insertion Loss Graphic result

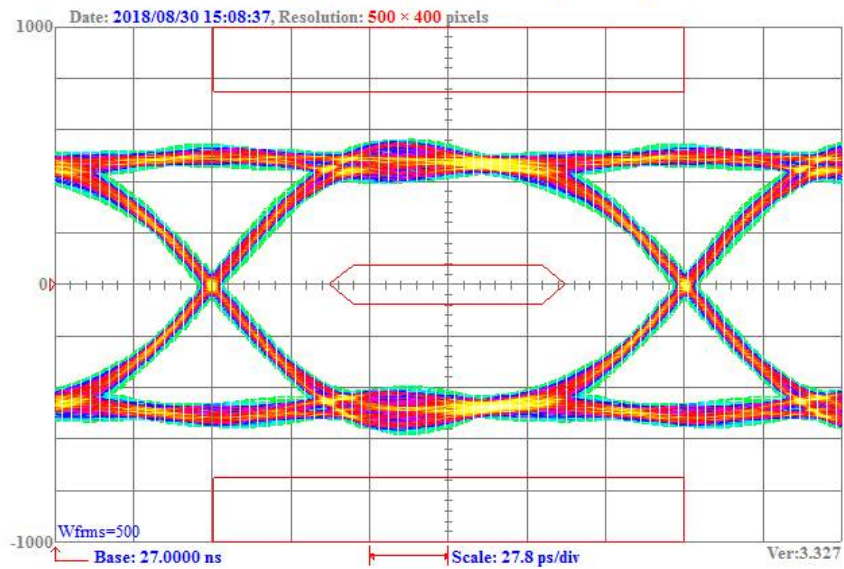
C1 -(PASS)



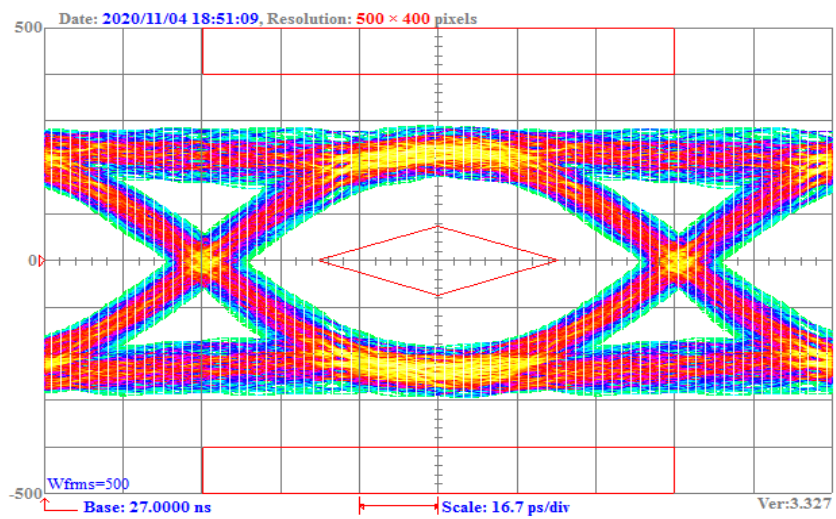
USB3.1 Choke Intra Skew Graphic result



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

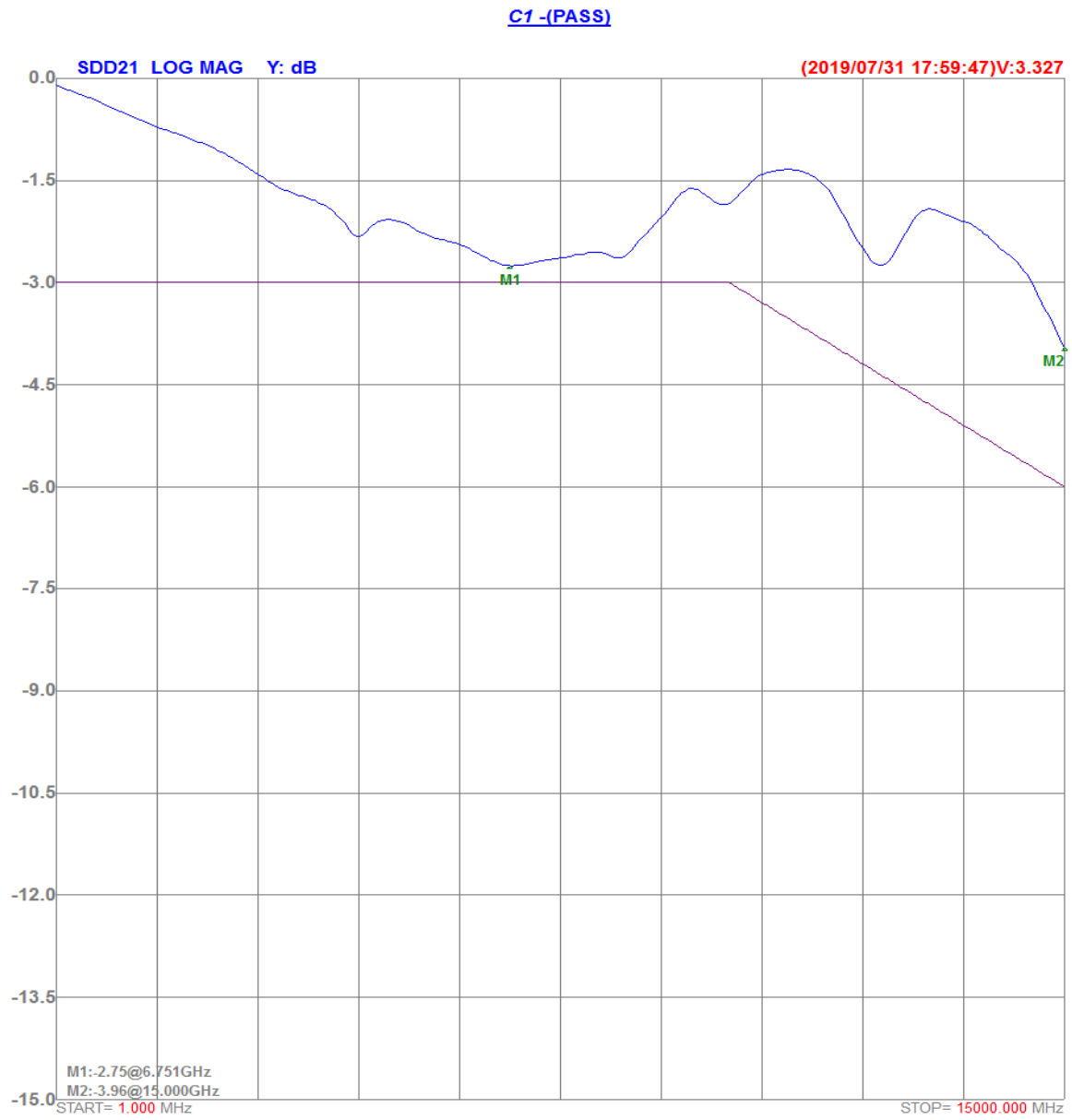


USB3.1 Choke Eye Diagram Graphic result

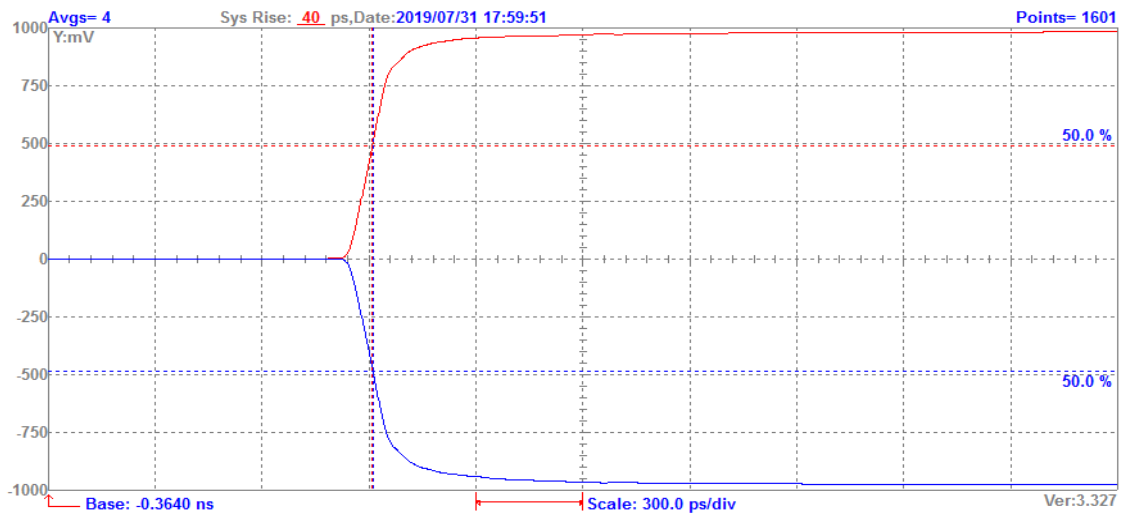


HSF2012F2SF-121T03-H

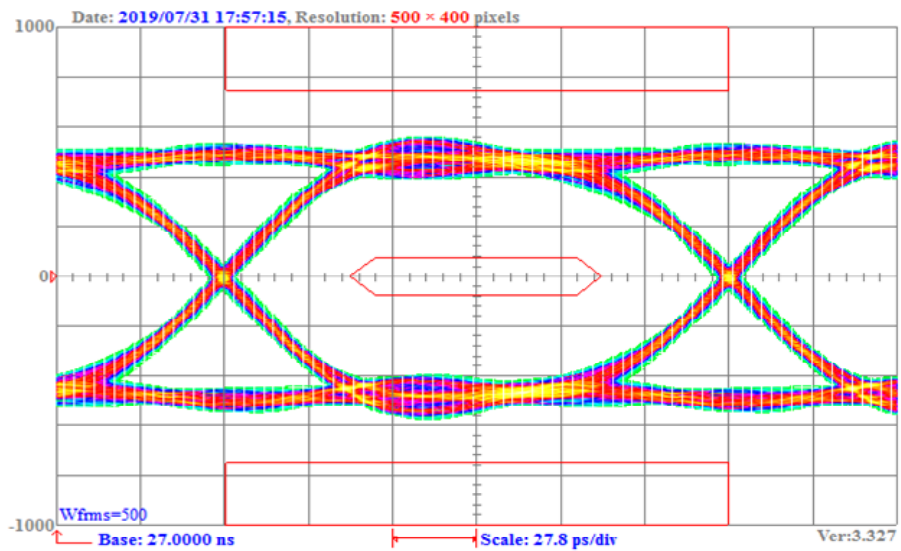
USB3.1 Choke Insertion Loss Graphic result



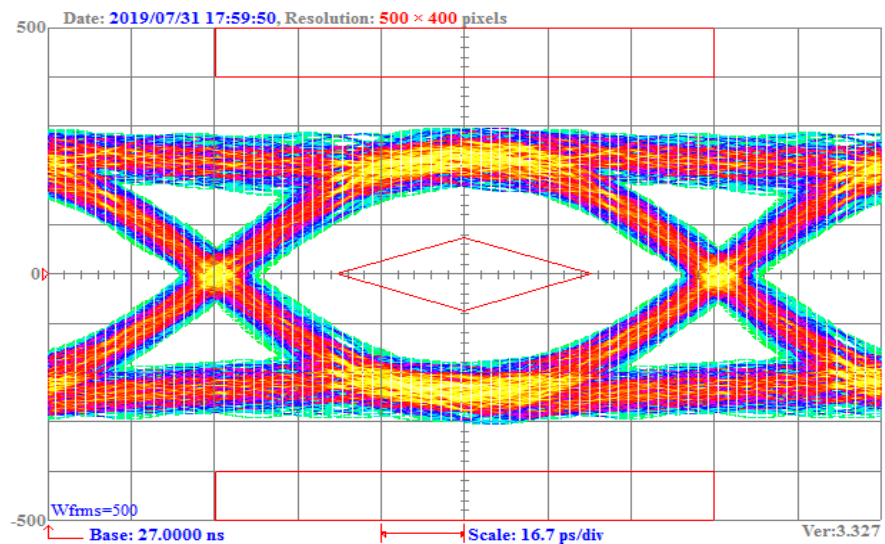
USB3.1 Choke Intra Skew Graphic result



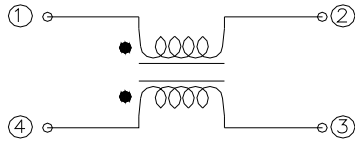
HDMI2.0 Choke Eye Diagram with 25ps Graphic result



USB3.1 Choke Eye Diagram Graphic result



5. Schematic Diagram



6. Recommended PC Board Pattern

	HSF2012F2S
L(mm)	2.60
H(mm)	1.40
G1(mm)	1.25
G2(mm)	0.45

