

Wire Wound Type Common Mode Filter

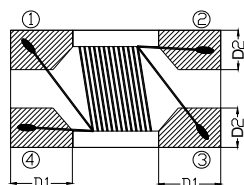
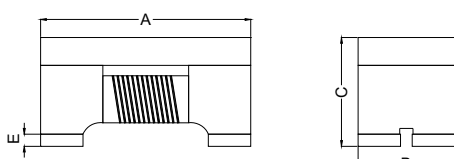
HSF2012F2SV-SERIES-H

1. Features

1. High common mode impedance at high frequency cause excellent noise suppression performance.
2. HSF2012F2SV 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. High reliability -Reliability tests comply with AEC-Q200
6. Operating temperature -55~+125°C (Including self - temperature rise)



2. Dimension



Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	E(mm)
2012F2SV	2.0±0.2	1.2±0.2	1.2±0.2	0.50±0.1	0.51±0.1	0.15±0.1

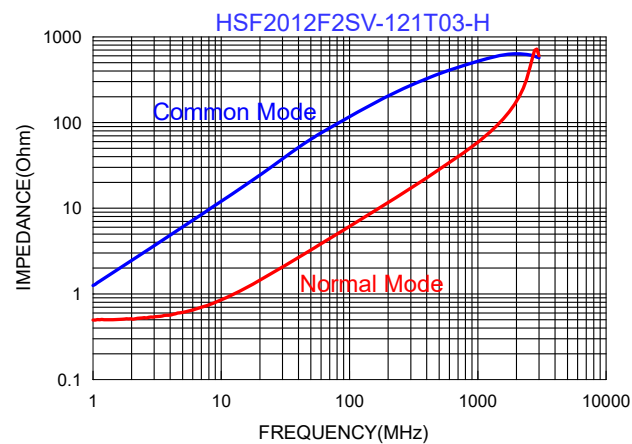
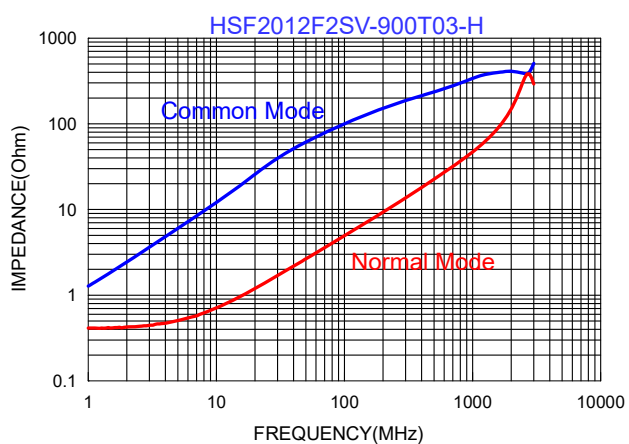
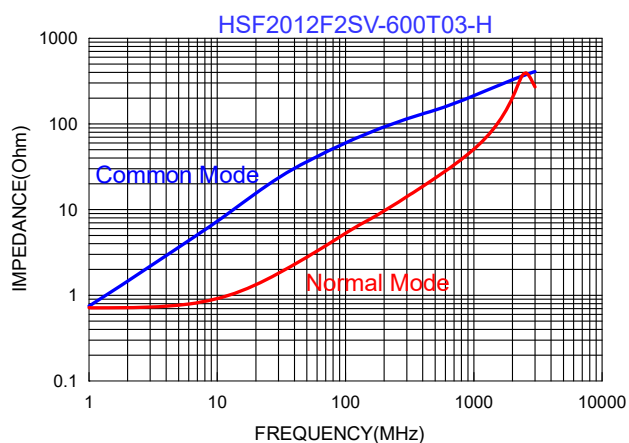
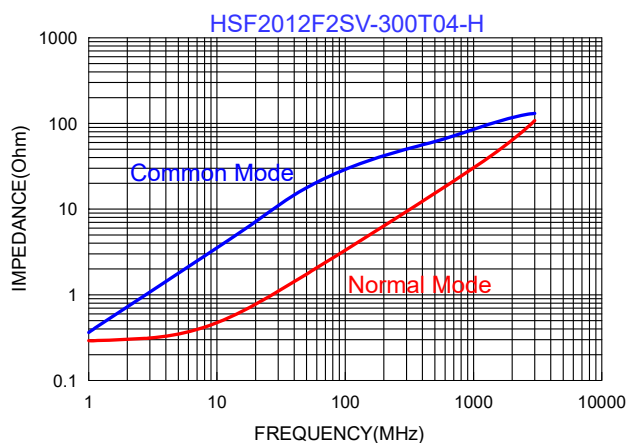
3. Part Numbering

HSF	2012	F	2	S	V	-	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: Category Code V=Vehicle
 G: Impedance 600=60Ω
 H: Packaging T=Taping and Reel
 I: Rated Current 03=300mA
 J: Control S/N

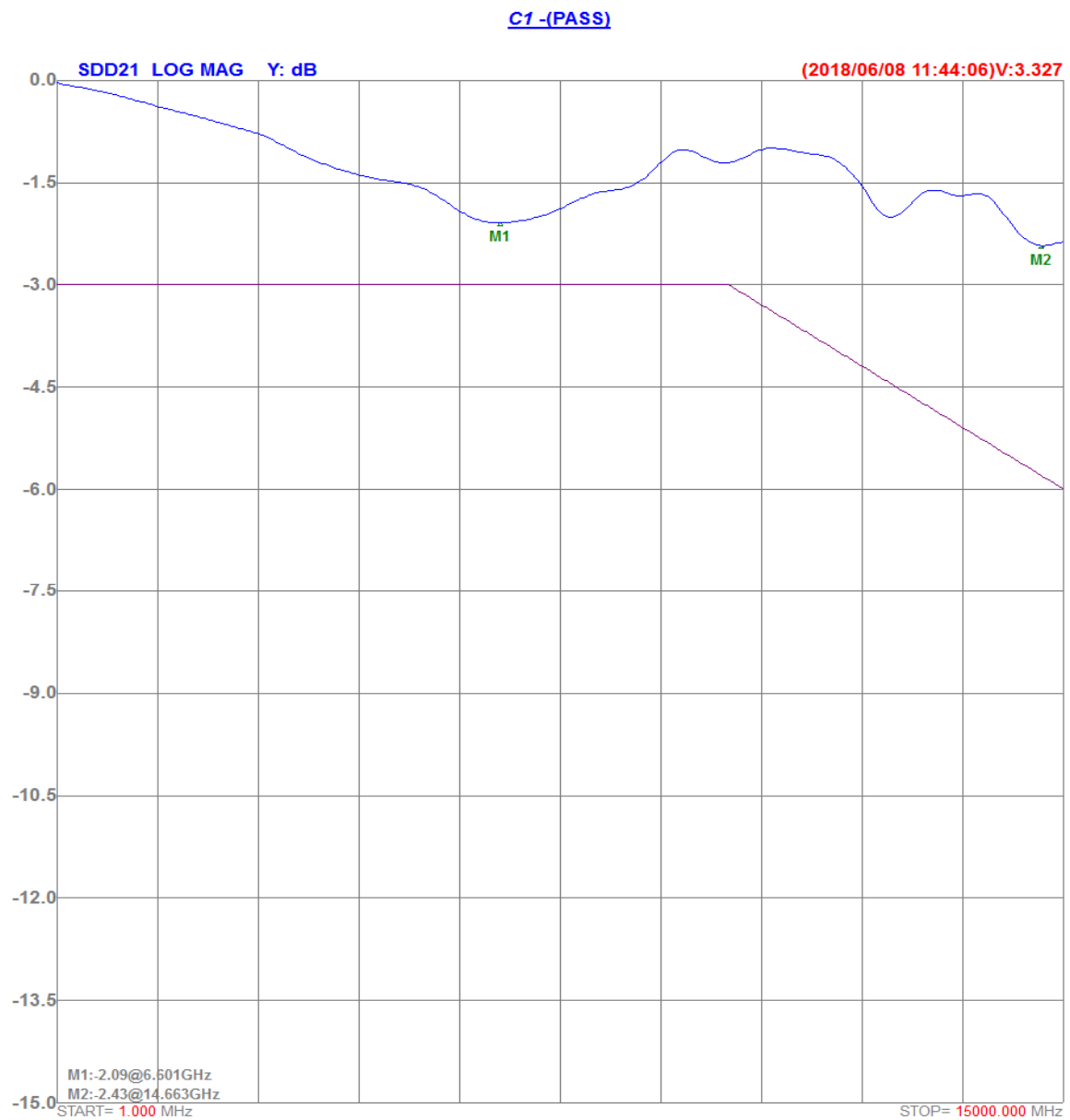
4. Specification

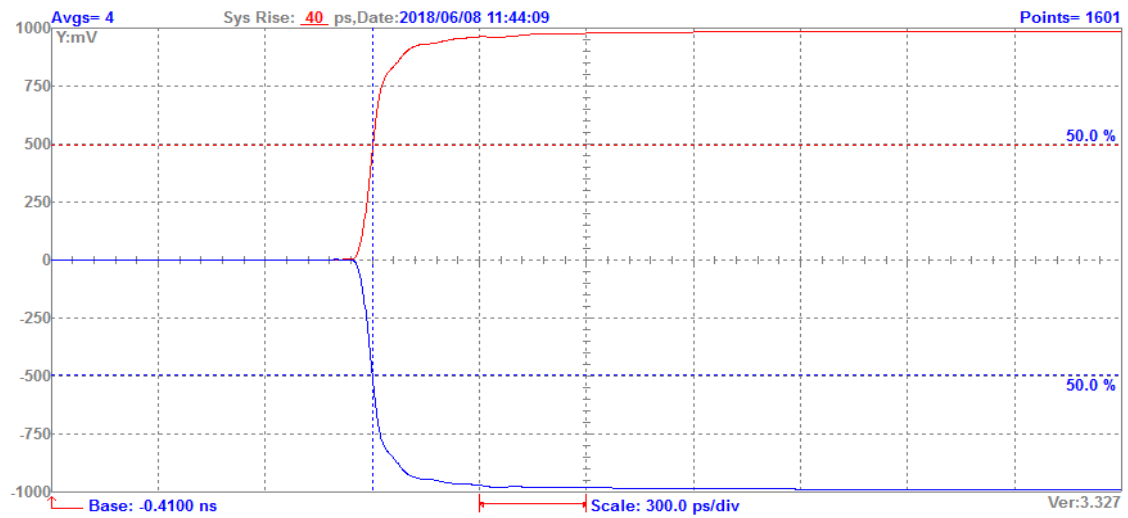
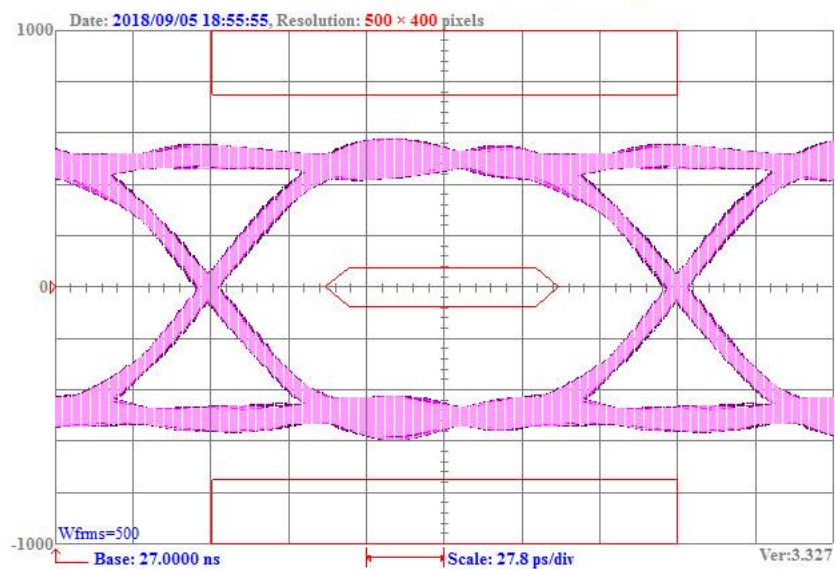
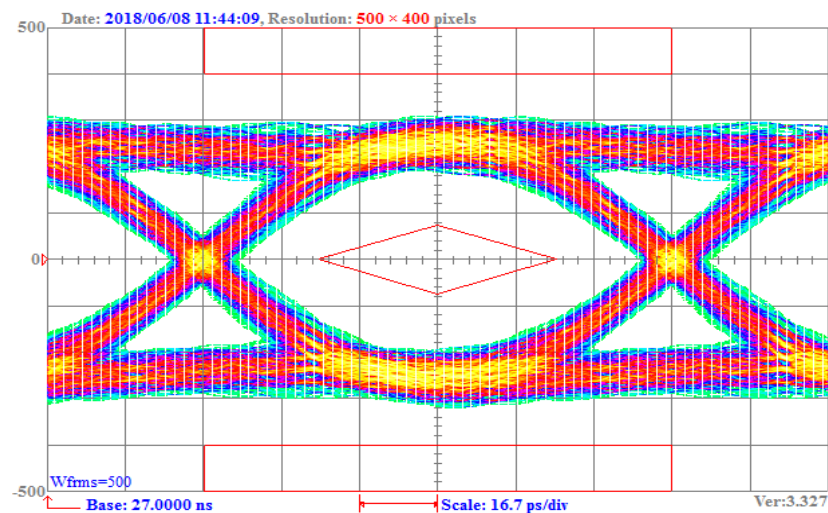
TAI-TECH Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA) max.	Rated Volt. (Vdc) max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
HSF2012F2SV-300T04-H	30±25%	100	0.20	400	50	125	10M
HSF2012F2SV-600T03-H	60±25%	100	0.30	300	50	125	10M
HSF2012F2SV-900T03-H	90±25%	100	0.30	300	50	125	10M
HSF2012F2SV-121T03-H	120±25%	100	0.35	330	50	125	10M

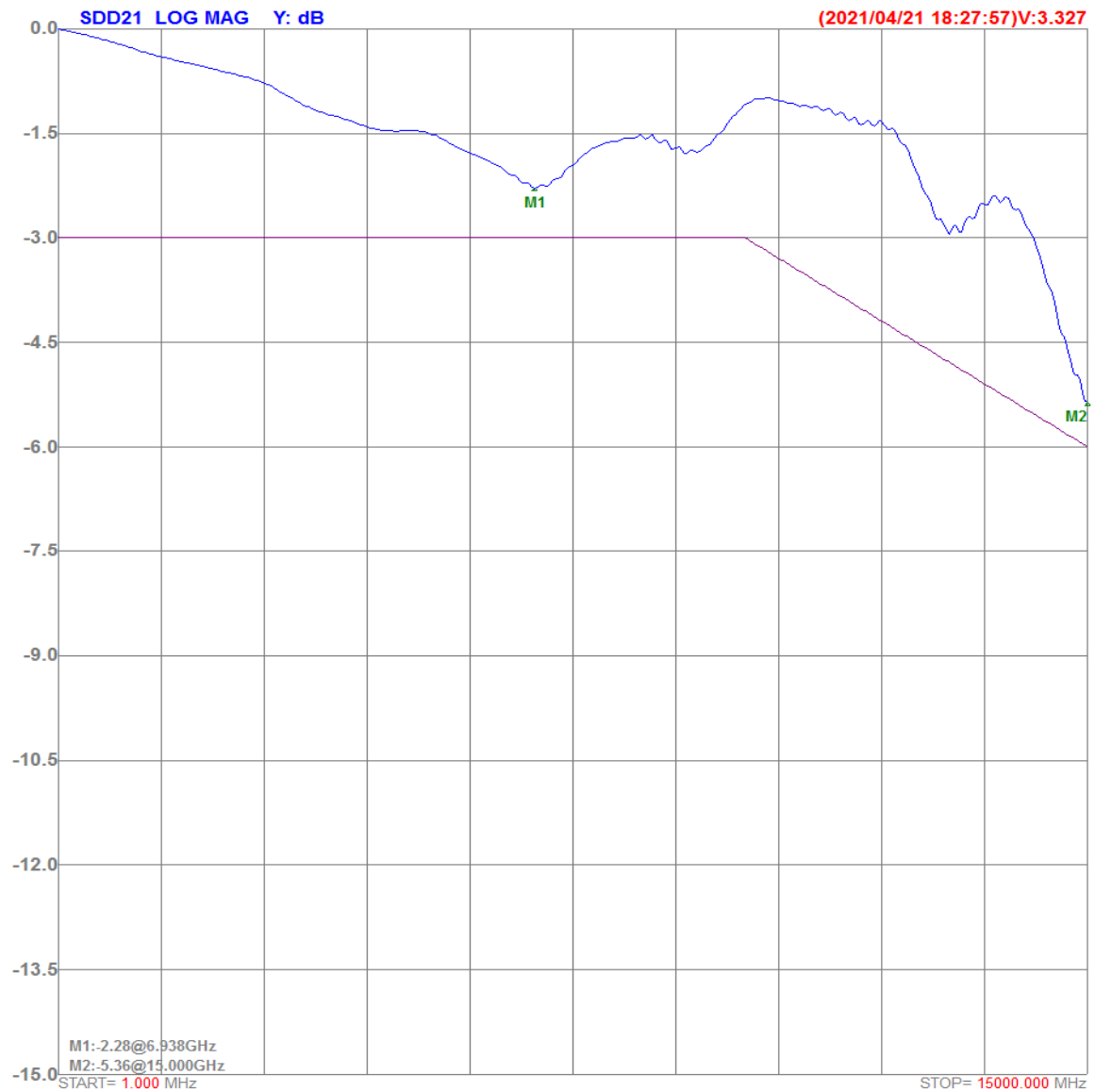


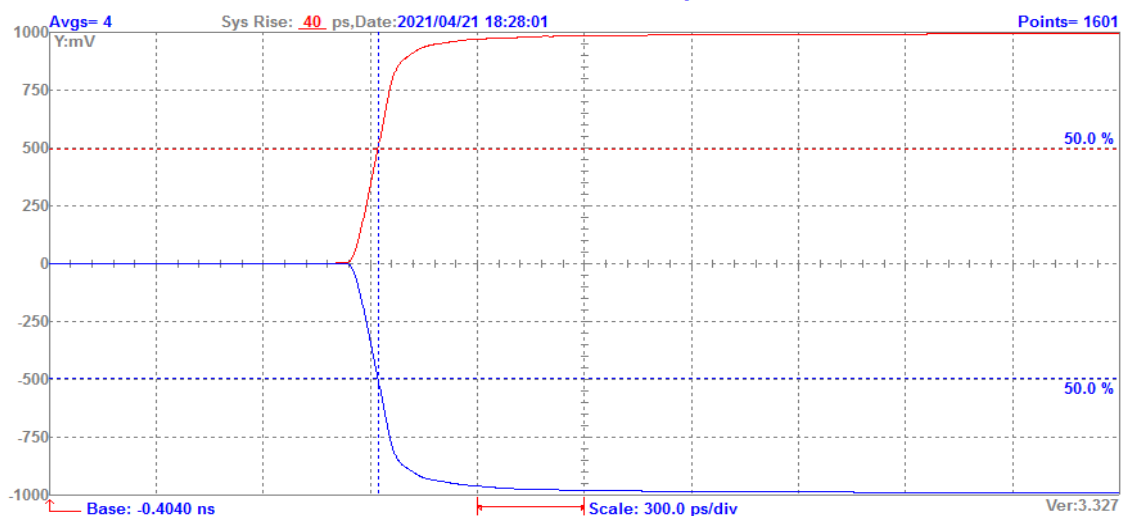
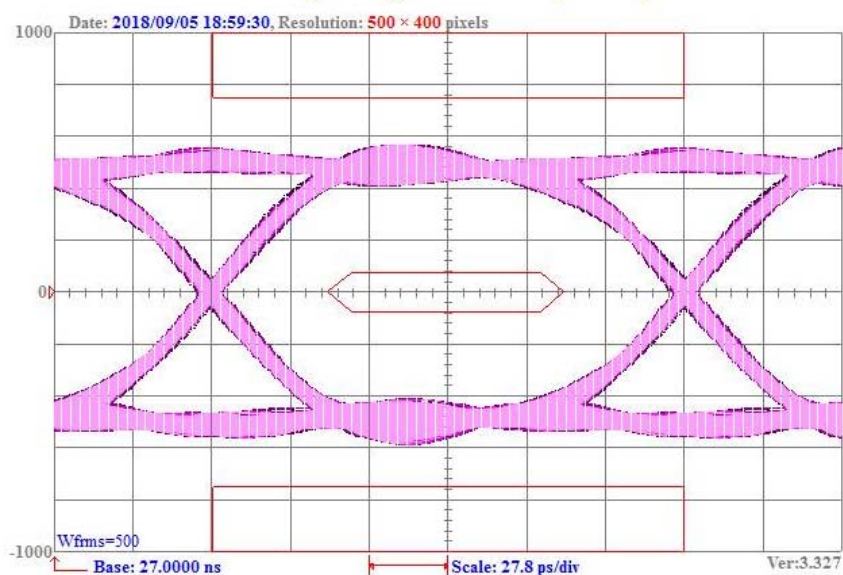
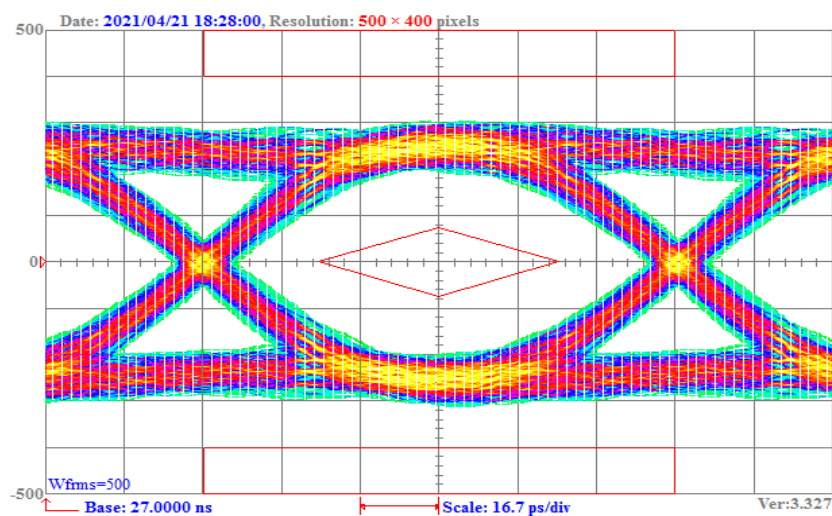
HSF2012F2SV-300T04-H

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**

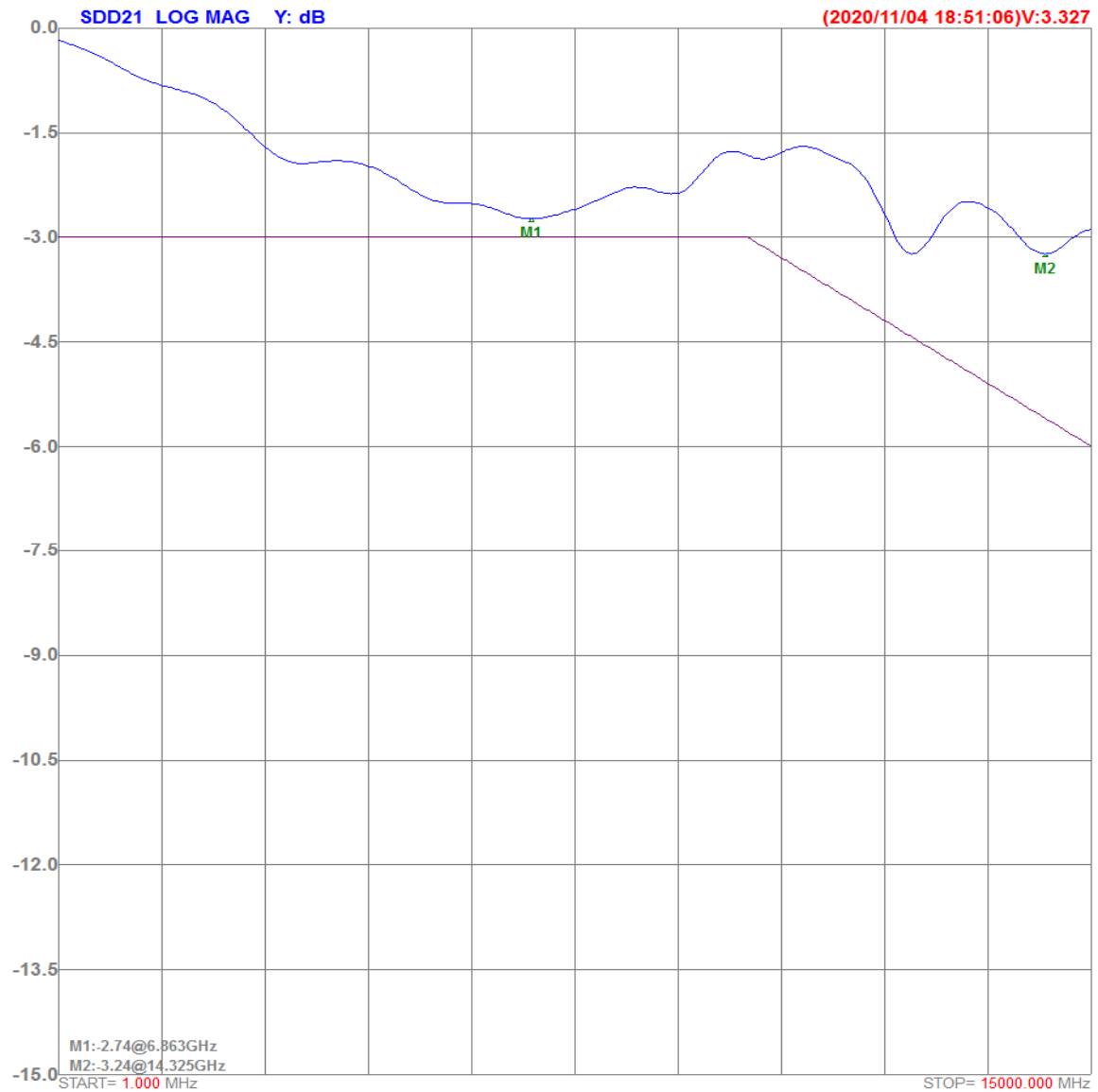
HSF2012F2SV-600T03-H**USB3.1 Choke Insertion Loss Graphic result**C1 -(PASS)

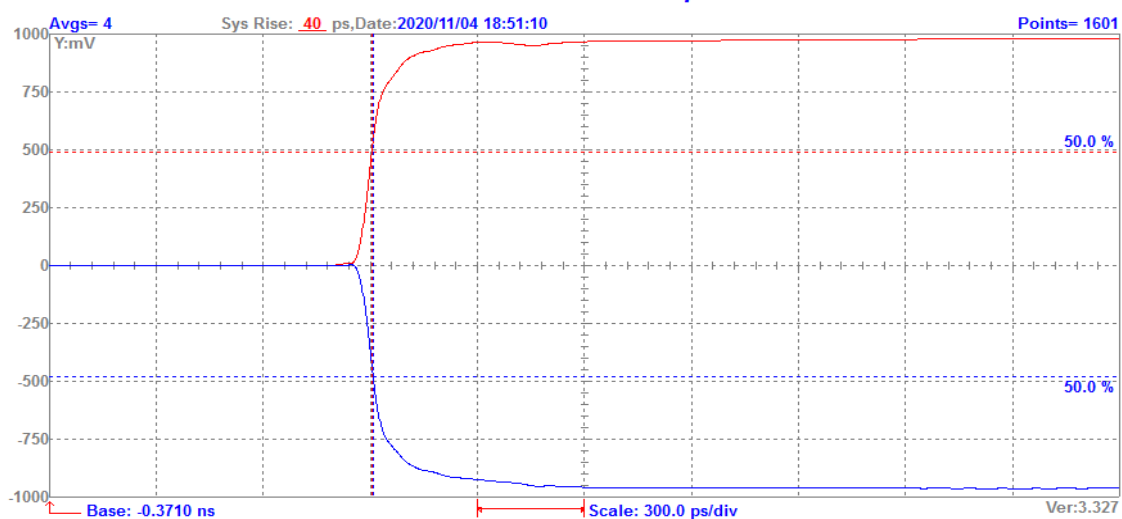
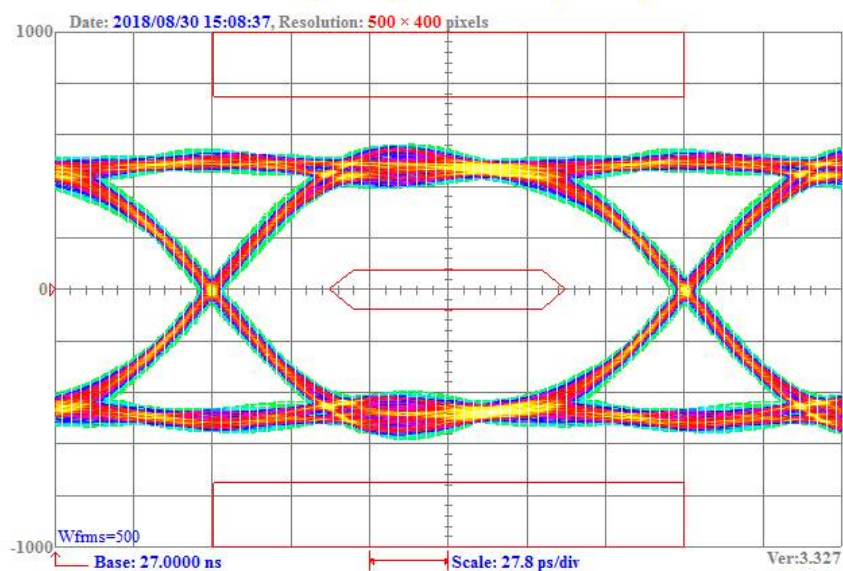
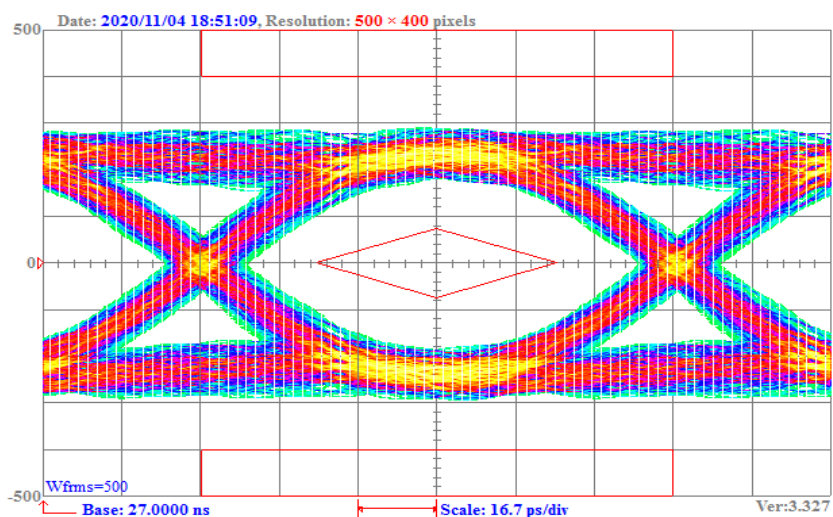
USB3.1 Choke Intra Skew Graphic result**HDMI2.0 Choke Eye Diagram with-25ps Graphic result****USB3.1 Choke Eye Diagram Graphic result**

HSF2012F2SV-900T03-H

USB3.1 Choke Insertion Loss Graphic result

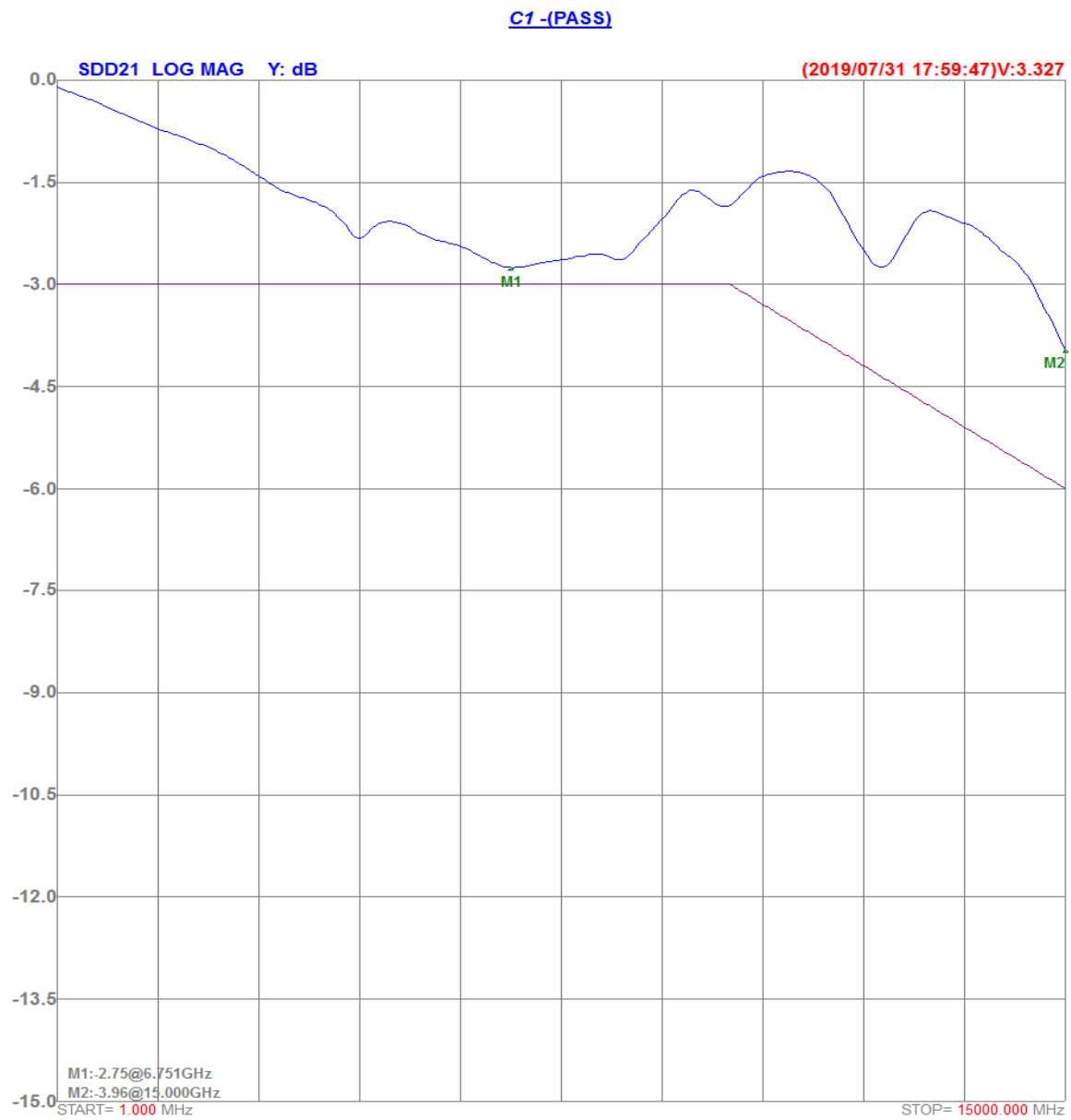
C1 -(PASS)

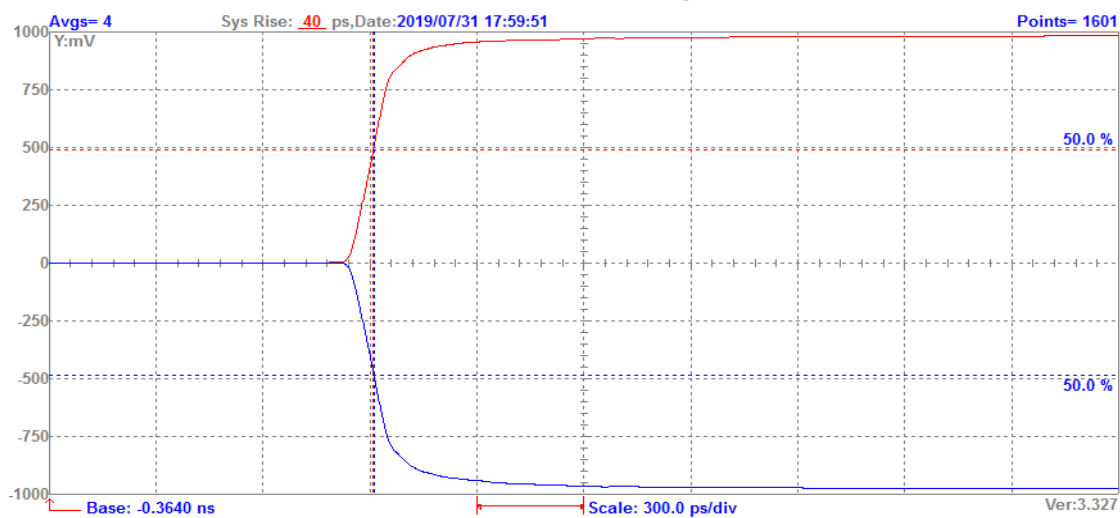
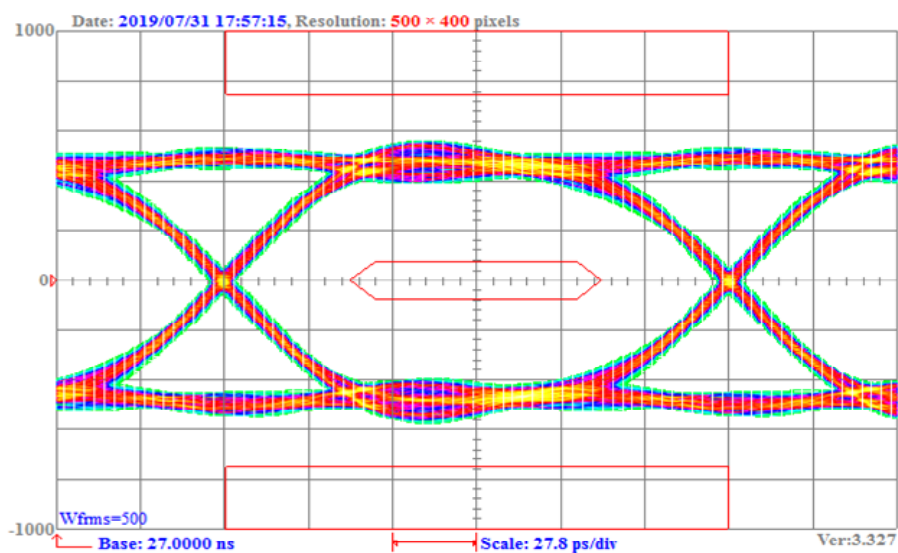
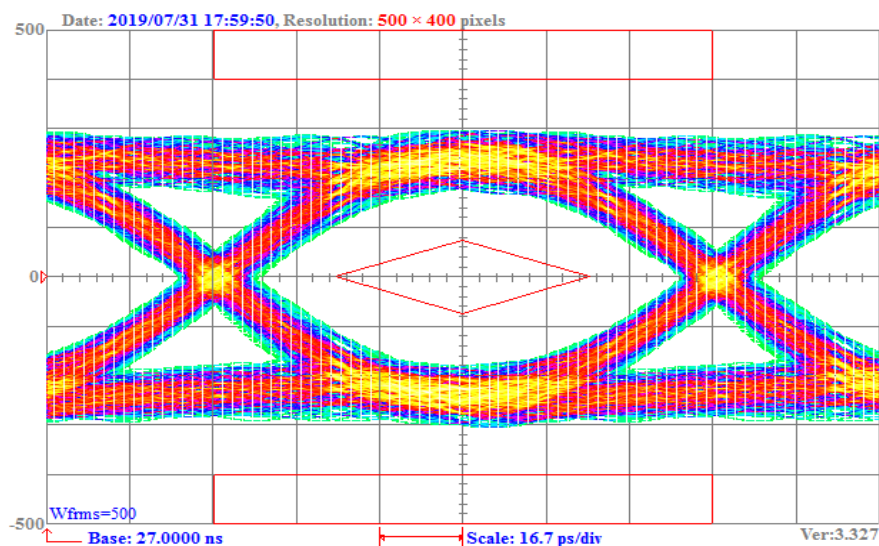


USB3.1 Choke Intra Skew Graphic result**HDMI2.0 Choke Eye Diagram with-25ps Graphic result****USB3.1 Choke Eye Diagram Graphic result**

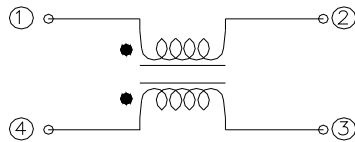
HSF2012F2SV-121T03-H

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

