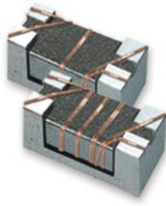


CUWI Series For HDMI, USB 3.0



A full series of common mode choke is designed for excellent noise attenuation and compact sizing for use in wide range of applications. Both standard series and custom designs are available.

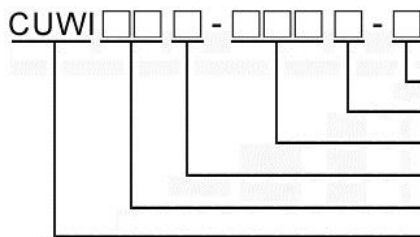
Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- Excellent solderability

Applications

- HDMI
- USB lines (for personal computers and peripheral), DVC, STB, LVDS, panel line for liquid display panels, etc.

Product Identification



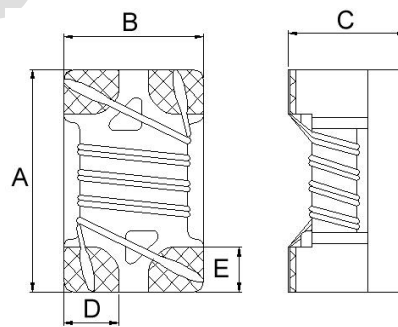
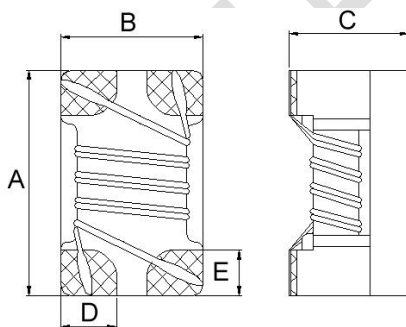
CEC Internal No.
Tolerance
Impedance
Packaging Style
Dimensions Code
Product Symbol

- Packaging: T : Tape and Reel

Shape and Dimensions

CUWI11

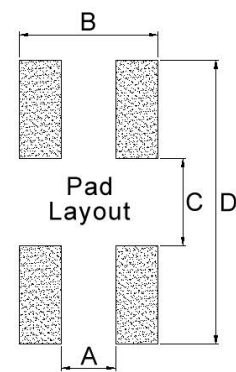
CUWI21



Dimensions in mm

TYPE	A	B	C	D	E
CUWI11	1.25±0.2	1.00±0.2	0.80±0.1	0.32	0.33
CUWI21	2.05±0.2	1.25±0.2	1.20±0.2	0.50	0.40

Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
CUWI11	0.36	1.00	0.59	1.75
CUWI21	0.50	1.27	0.80	2.60

SMD Common Mode Choke – CUWI Series

Electrical Characteristics

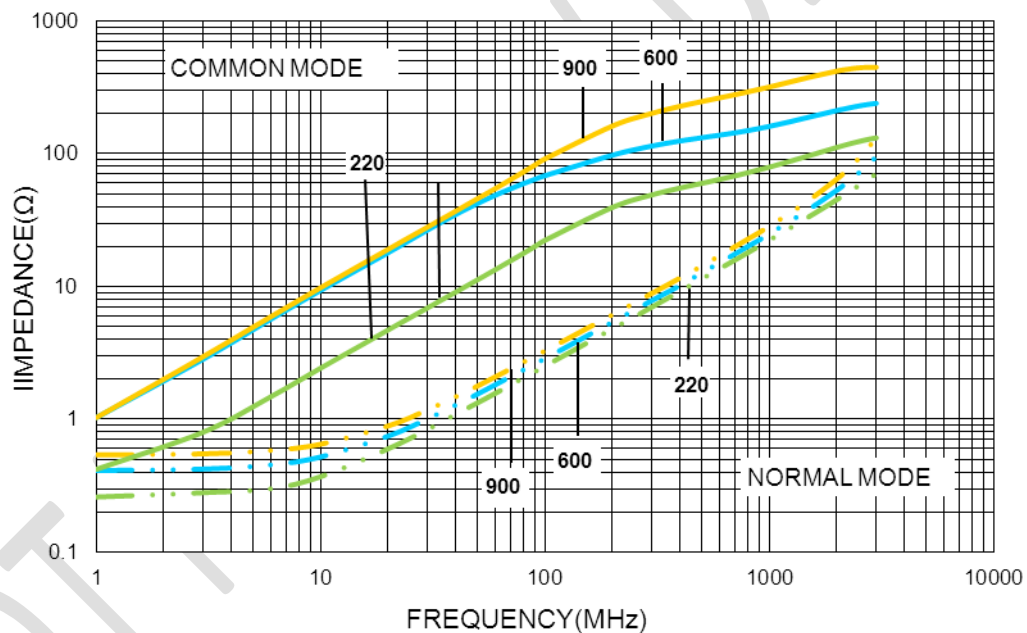
Part Number	Impedance (Ω)	Tolerance ($\pm\%$)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA) Max	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance (M Ω) Min
CUWI11T-220Y-N	22	25	100	0.20	400	50	125	100
CUWI11T-600Y-N	60	25	100	0.40	250	50	125	100
CUWI11T-900Y-N	90	25	100	0.30	250	50	125	100

Note: When ordering, please specify tolerance code. Tolerance: Y= $\pm 25\%$

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current.
- Measure Equipment :
 Z : HP4286A/HP4287A/Agilent E4991A+Agilent16197A
 RDC : Chroma 16502 (Single Wire Test Value)
 IDC : HP4284A+HP42841A/HP4285A+HP42841A
 Insulation Resistance : Agilent HP4339B

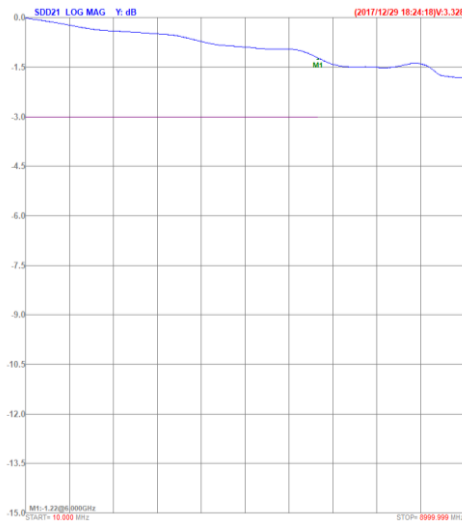
Test Instruments : HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency

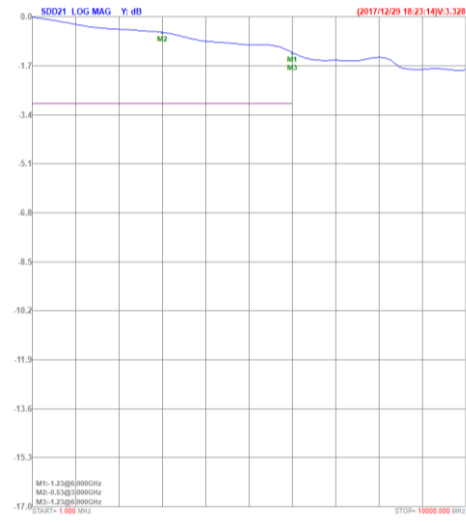


CUWI11T-220Y-N

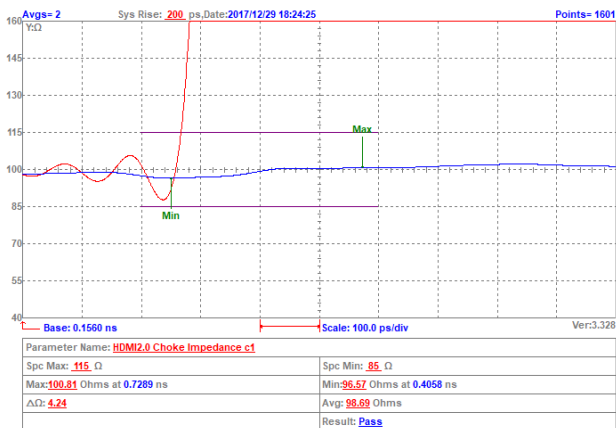
Insertion Loss For HDMI2.0 Testing:



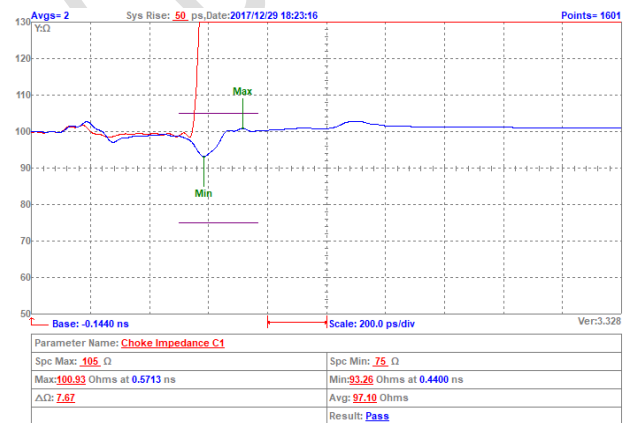
Insertion Loss For USB3.0 Testing:



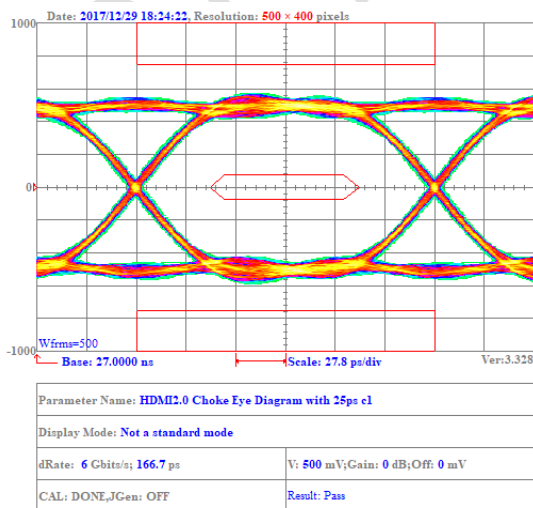
TDR For HDMI2.0 Testing:



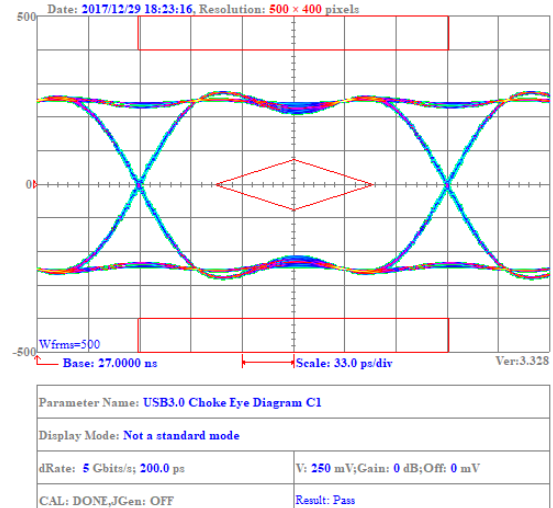
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:

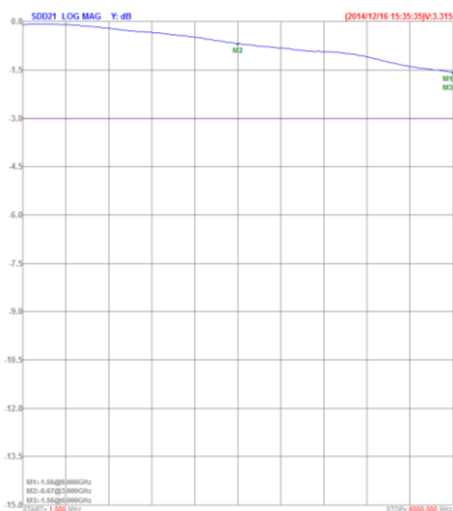


Eye Diagram For USB3.0 Testing:

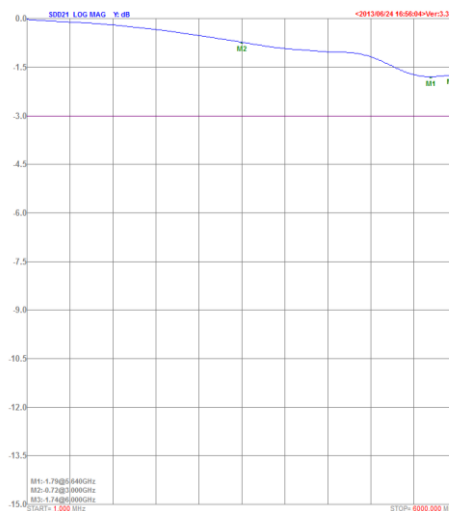


CUWI11T-600Y-N

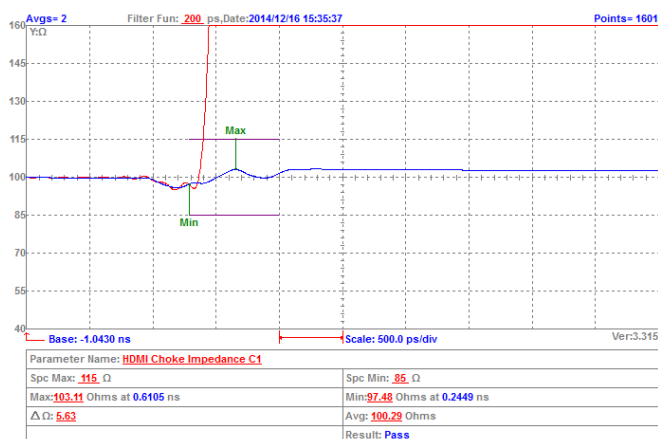
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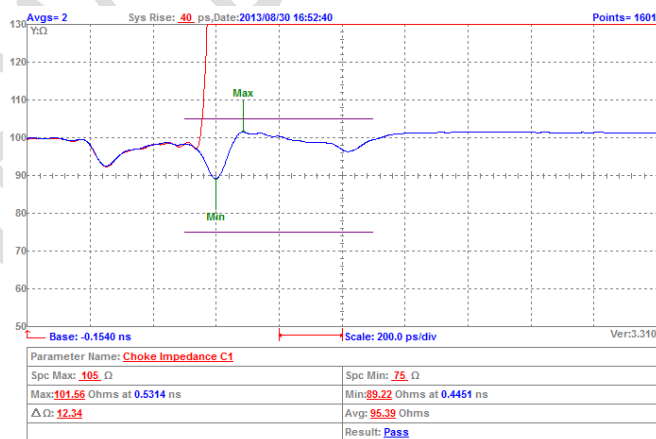
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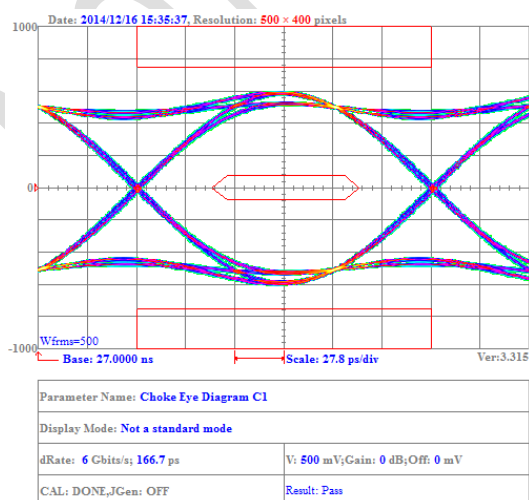
TDR For HDMI2.0 Testing:



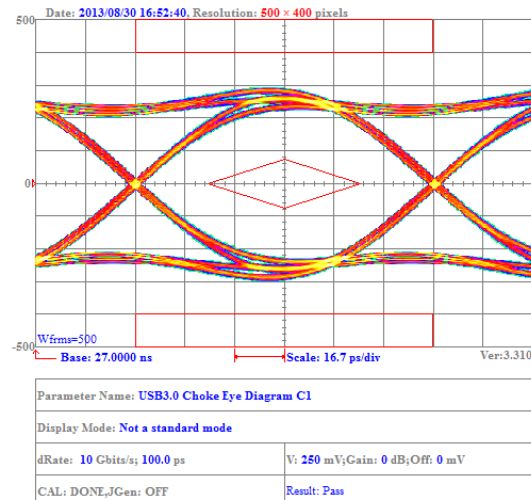
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:

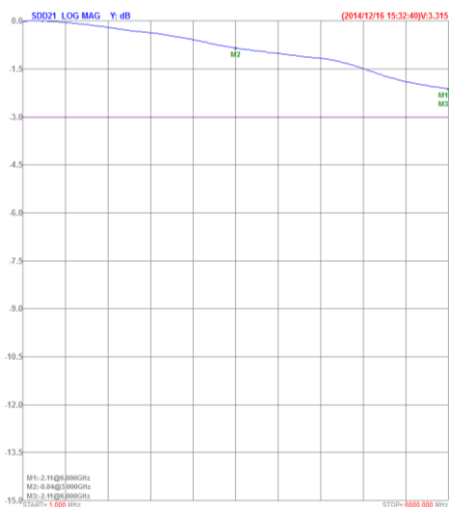


Eye Diagram For USB3.0 Testing:

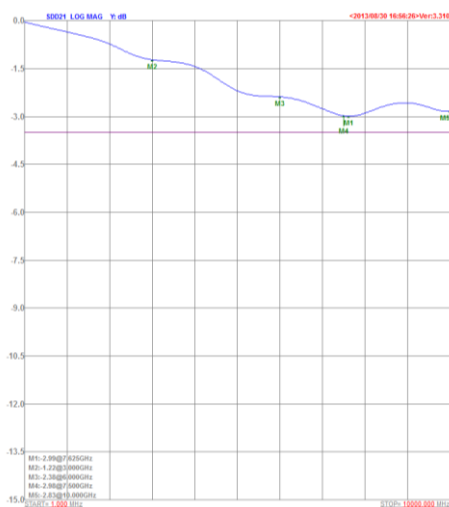


CUWI11T-900Y-N

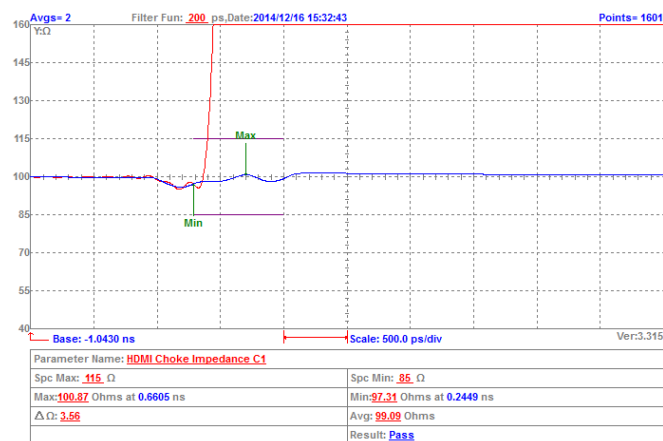
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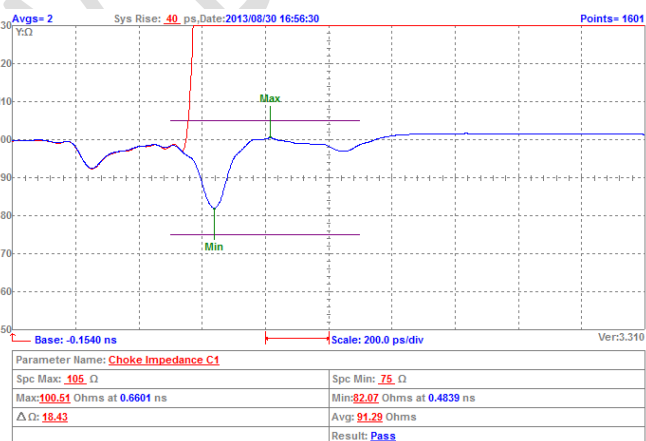
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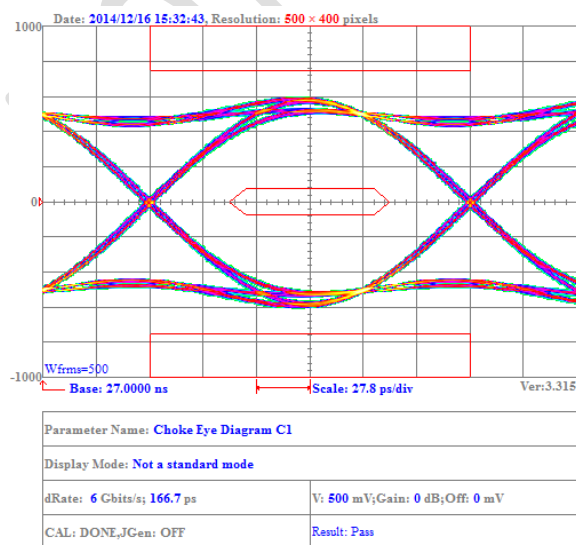
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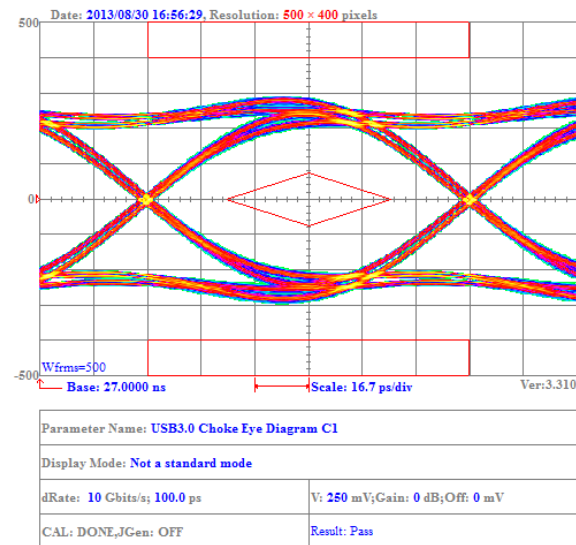
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



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SMD Common Mode Choke – CUWI Series

Electrical Characteristics

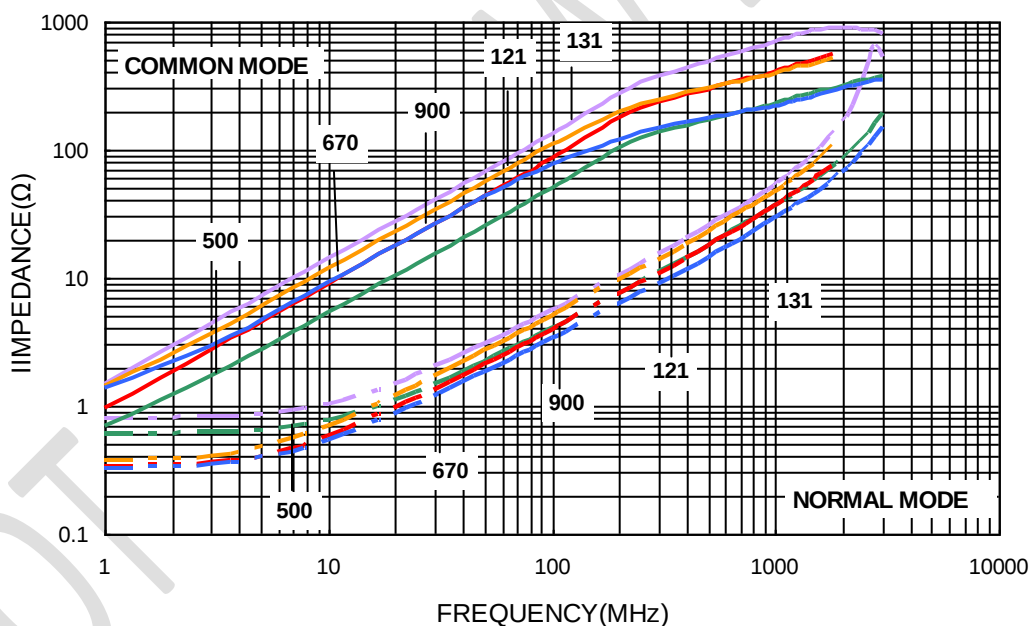
Part Number	Impedance (Ω)	Tolerance ($\pm\%$)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA) Max	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance (M Ω) Min
CUWI21T-500Y-N	50	25	100	0.20	500	50	125	10
CUWI21T-670Y-N	67	25	100	0.30	500	50	125	10
CUWI21T-900Y-N	90	25	100	0.30	500	50	125	10
CUWI21T-121Y-N	120	25	100	0.35	330	50	125	10
CUWI21T-131Y-N	130	25	100	0.40	300	50	125	10

Note: When ordering, please specify tolerance code. Tolerance: Y= $\pm 25\%$

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current.
- Measure Equipment :
 Z : HP4286A/HP4287A/Agilent E4991A+Agilent16197A
 RDC : Chroma 16502 (Single Wire Test Value)
 IDC : HP4284A+HP42841A/HP4285A+HP42841A
 Insulation Resistance : Agilent HP4339B

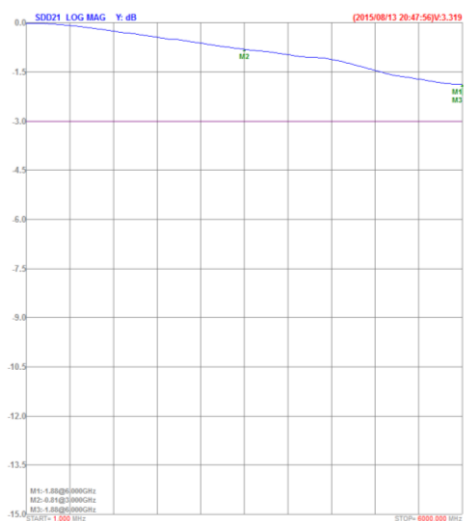
Test Instruments : HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency

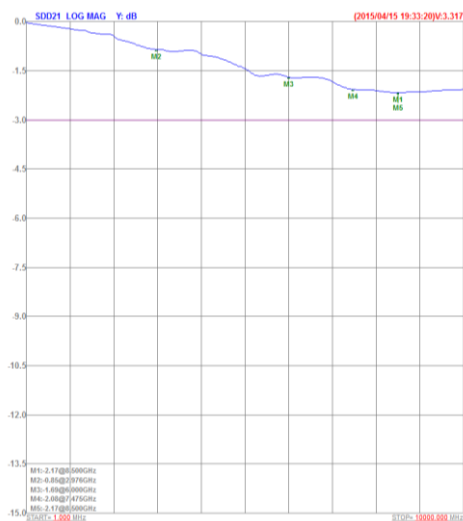


CUWI21T-500Y-N

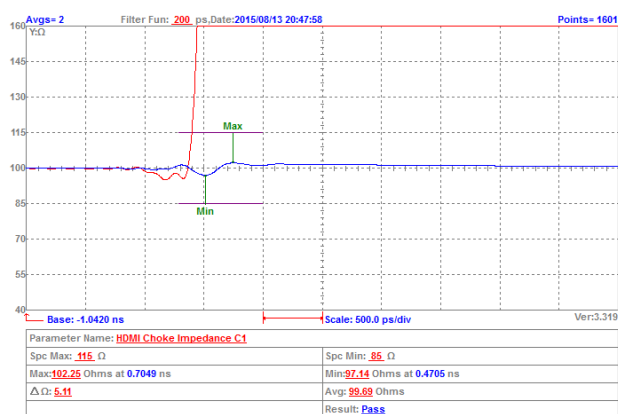
Insertion Loss For HDMI2.0 Testing:



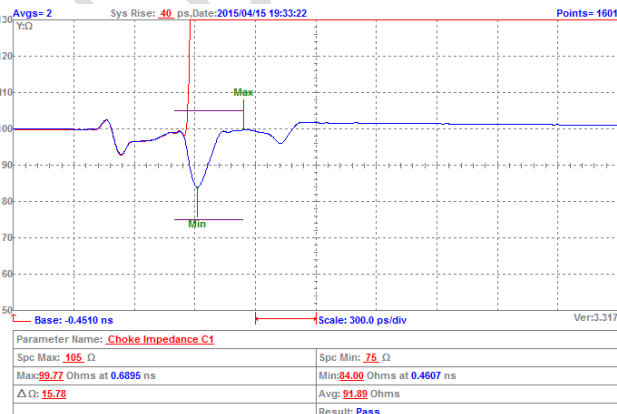
Insertion Loss For USB3.0 Testing:



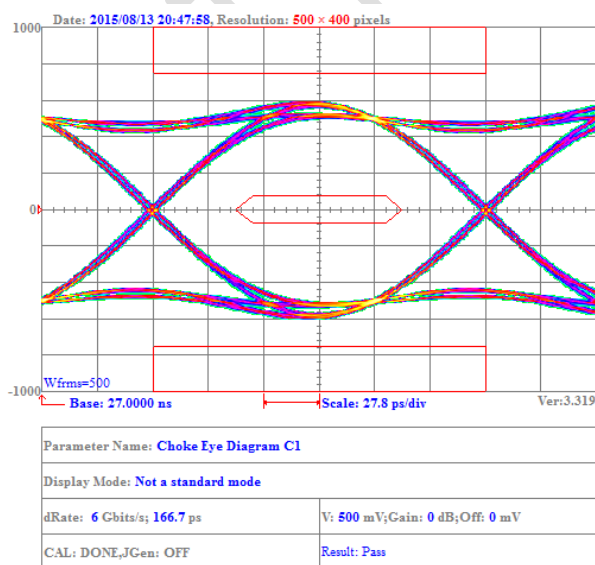
TDR For HDMI2.0 Testing:



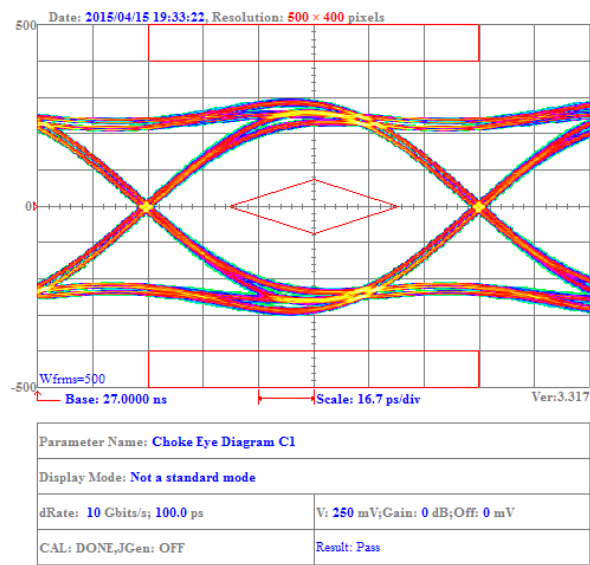
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:

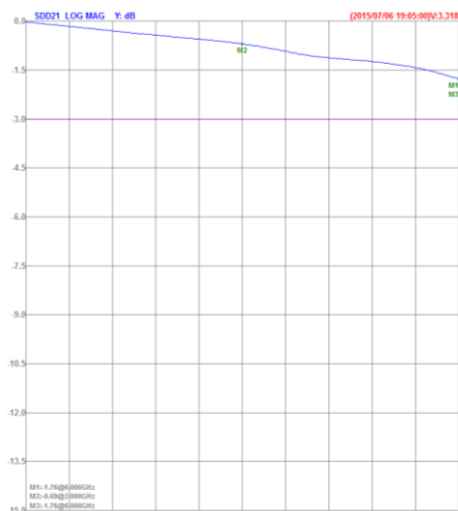


Eye Diagram For USB3.0 Testing:

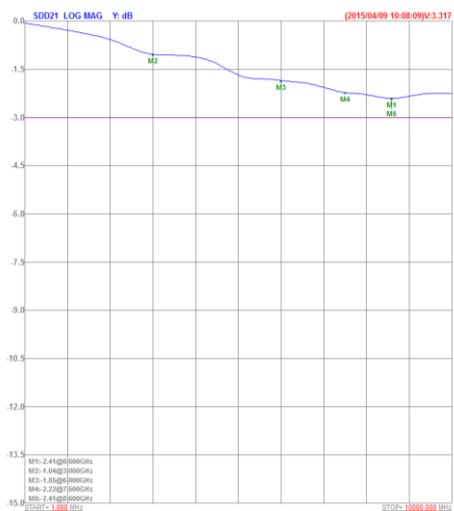


CUWI21T-670Y-N

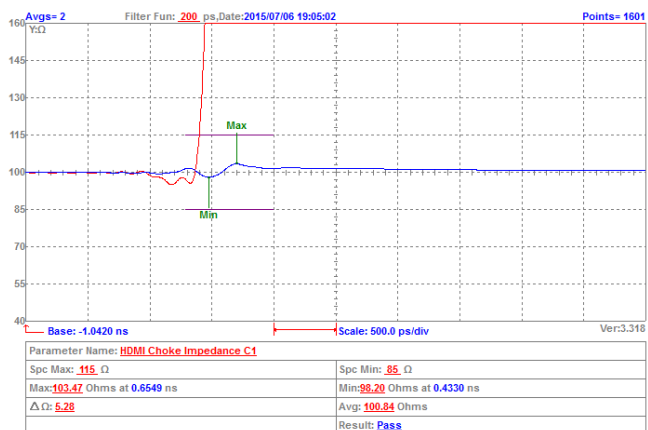
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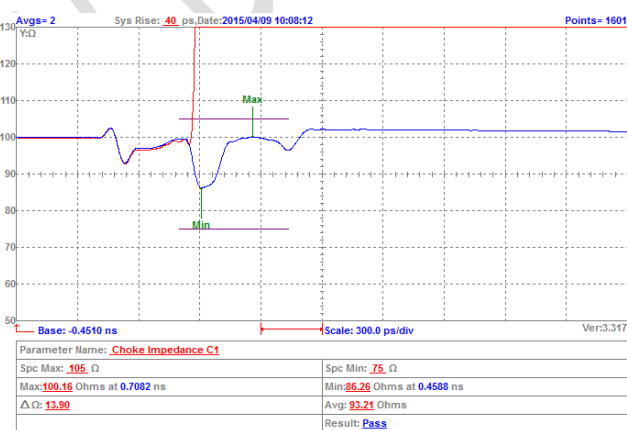
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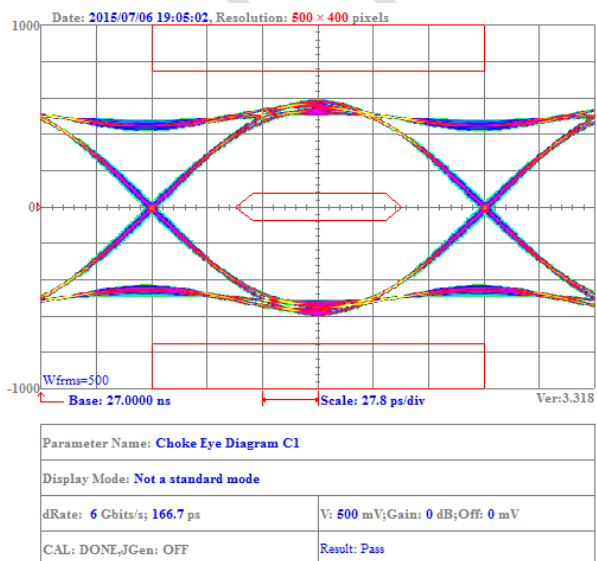
TDR For HDMI2.0 Testing:



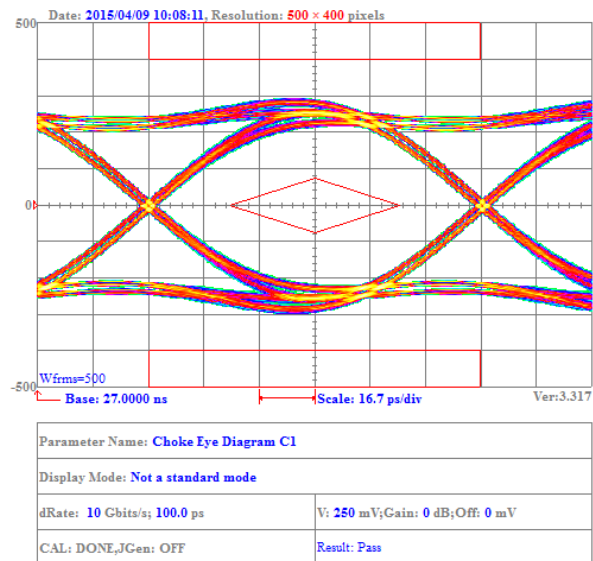
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:

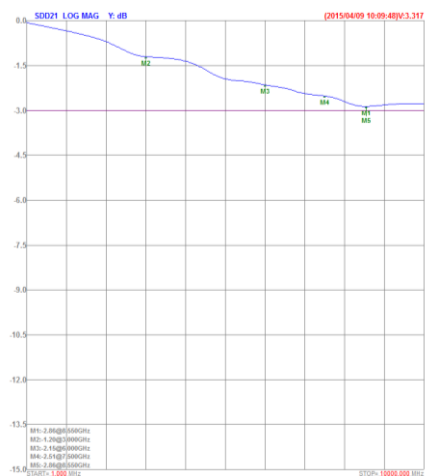


CUWI21T-900Y-N

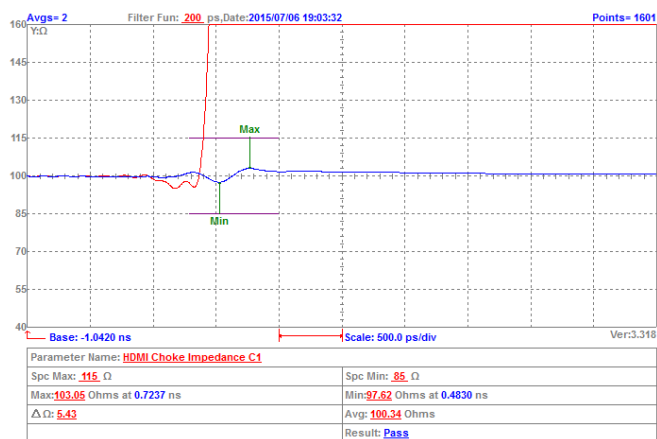
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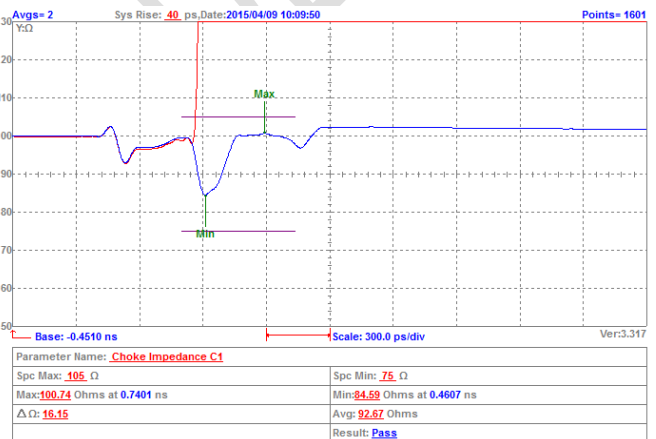
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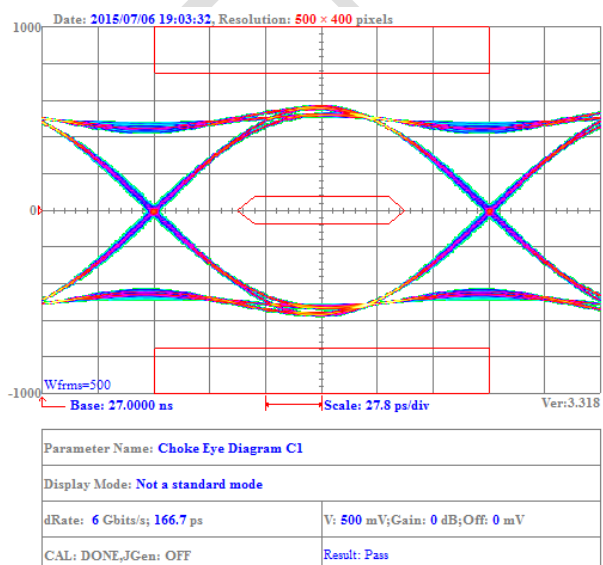
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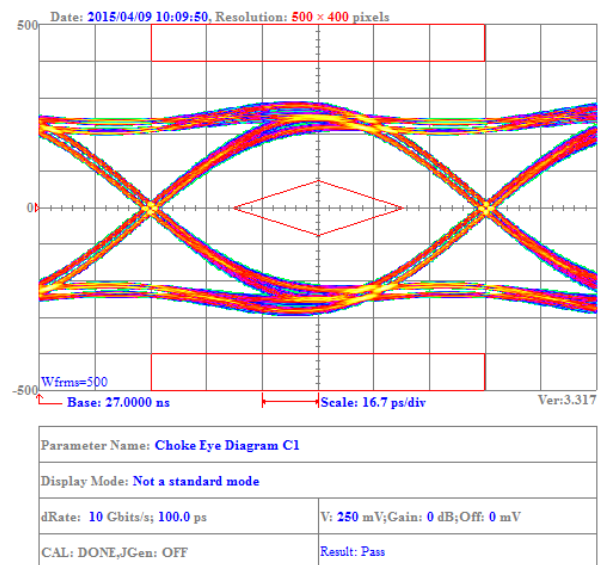
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



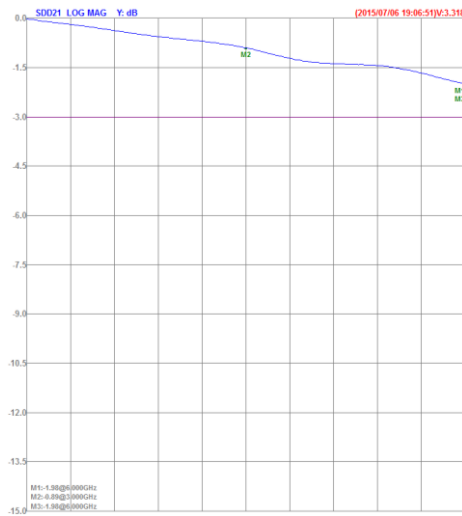
Eye Diagram For USB3.0 Testing:



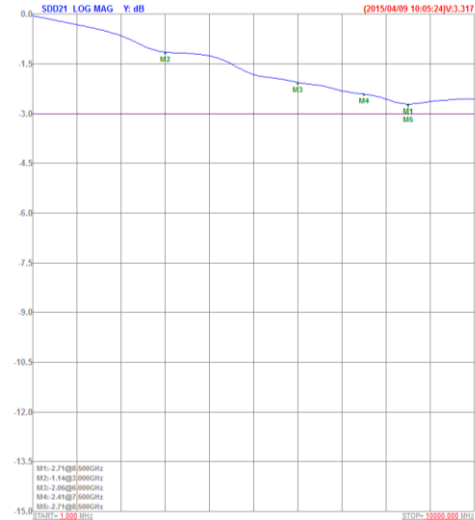
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CUWI21T-121Y-N

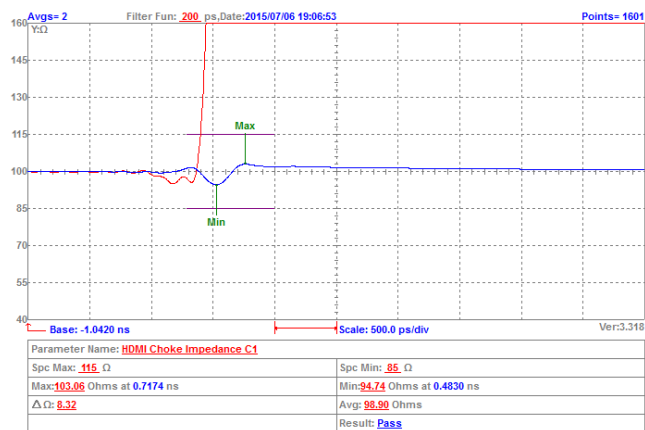
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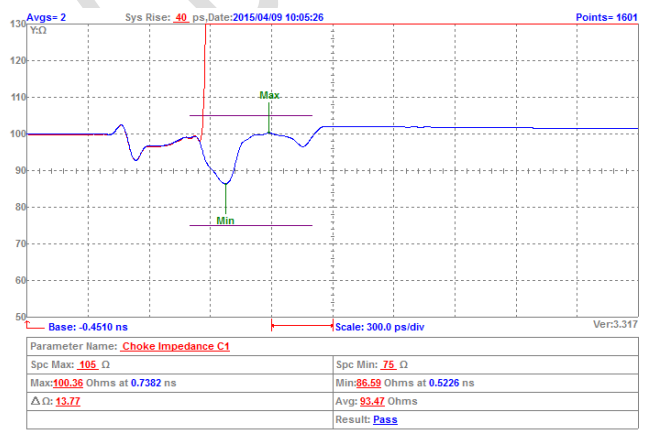
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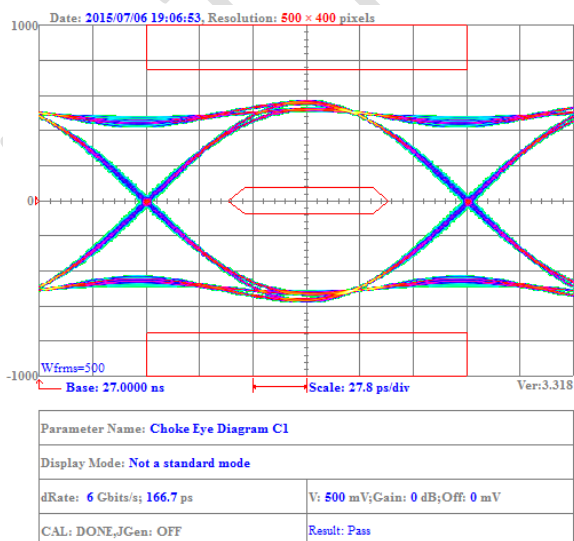
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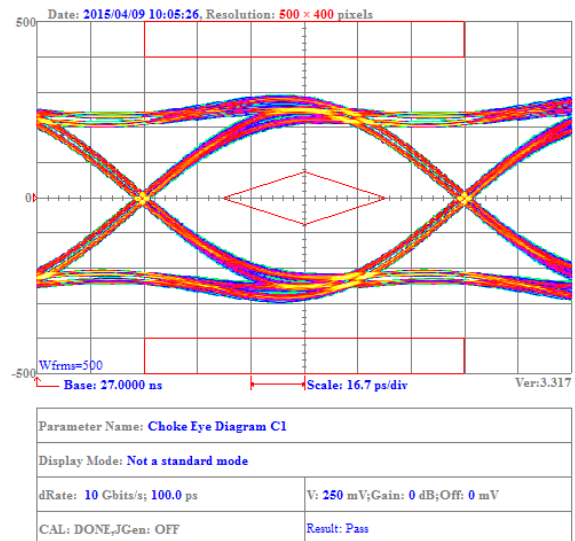
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:

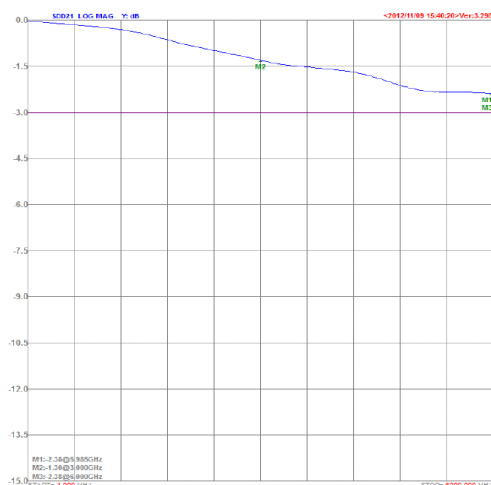


Eye Diagram For USB3.0 Testing:

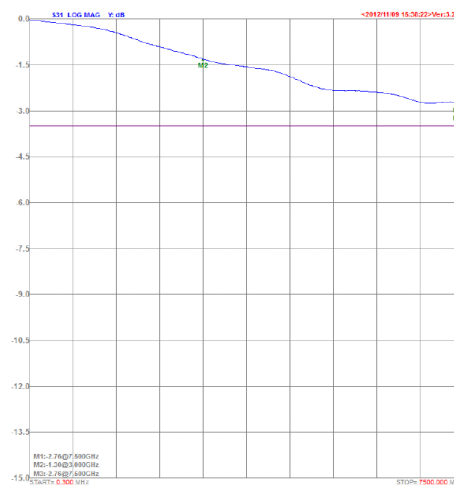


CUWI21T-131Y-N

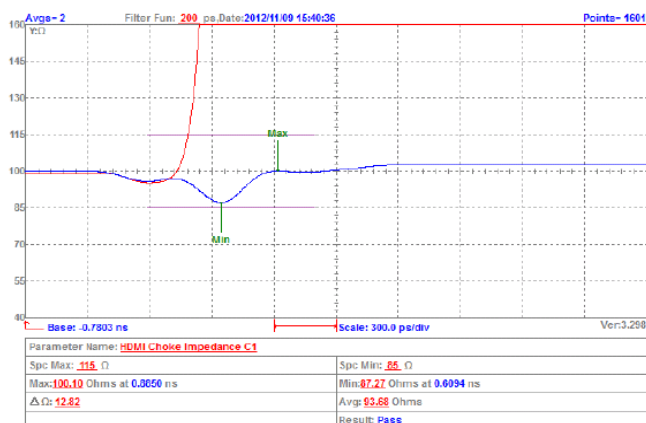
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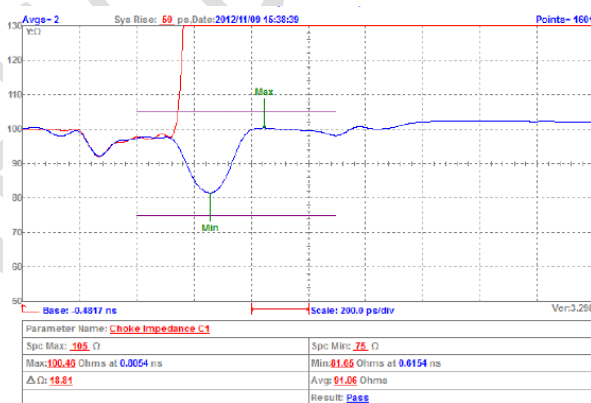
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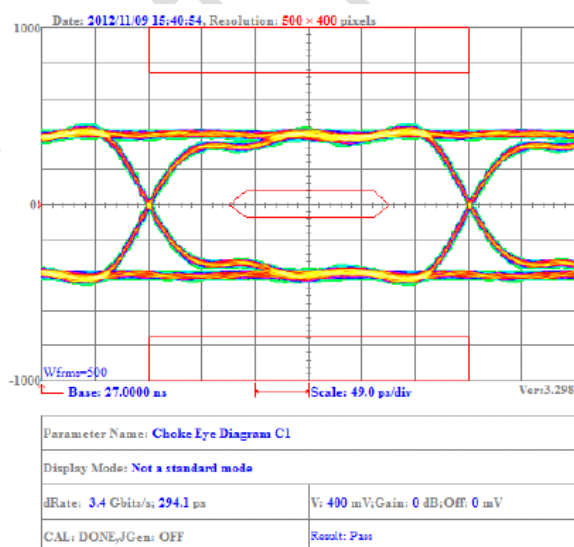
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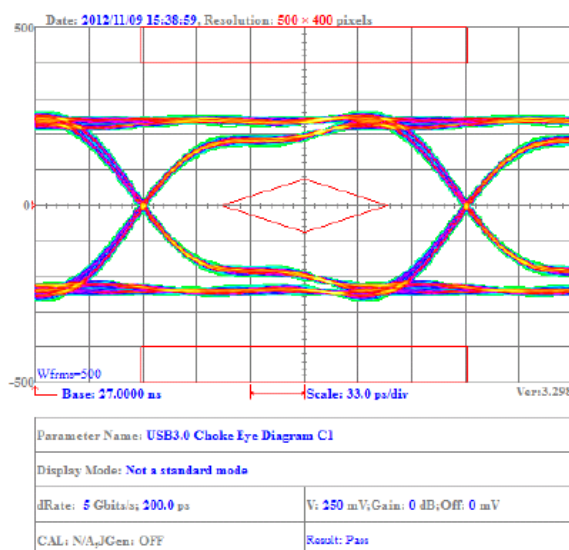
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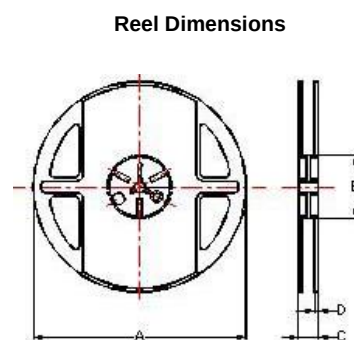
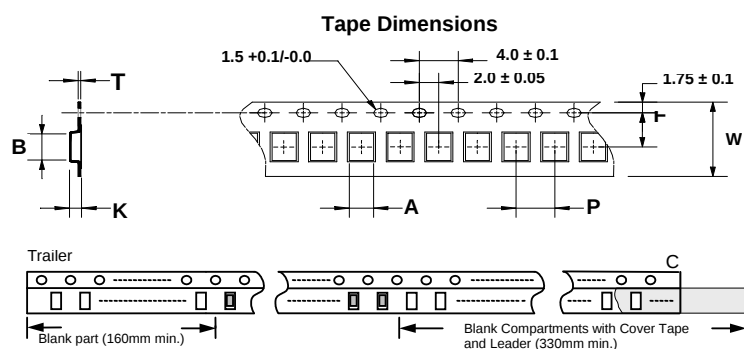
Eye Diagram For HDMI Testing:



Eye Diagram For USB3.0 Testing:



Packaging Specifications



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
	A	B	T	W	P	F	K	A	B	C	D	
CUWI11	1.15	1.45	0.25	8	4	3.5	1.00	178	60	12	1.5	2000
CUWI21	1.50	2.25	0.24	8	4	3.5	1.35	178	60	12	1.5	2000