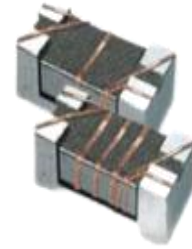




SMD Common Mode Choke - HMCC-I Series

FEATURES

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



ORDERING CODE(标志示例)

HMCC □□□ - □□□ □
(1) (2) (3) (4)

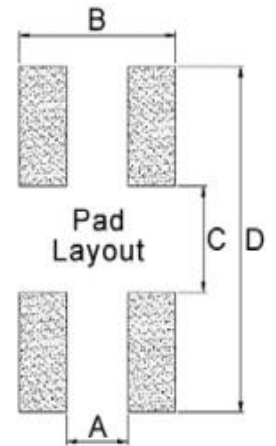
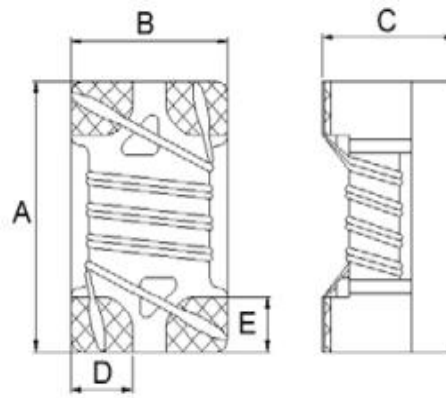
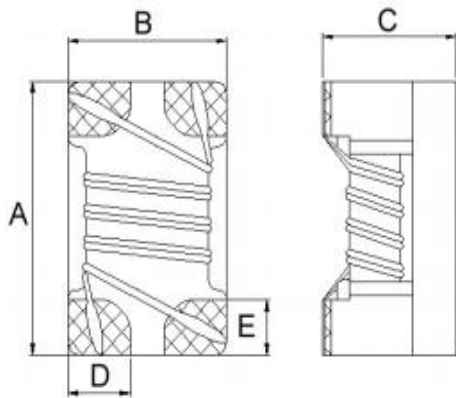
- (1) HMCC 向华料号 Part Number
- (2) 尺寸 Dimensions
- (3) 电感量 Inductance
- (4) 电感量公差 Inductance Tolerance

Shape and Dimensions

Recommended Pattern

HMCC11-I

HMCC21-I



Dimensions in mm

| TYPE | A | B | C | D | E |
|----------|----------|----------|----------|------|------|
| HMCC11-I | 1.25±0.2 | 1.00±0.2 | 0.80±0.1 | 0.32 | 0.33 |
| HMCC21-I | 2.05±0.2 | 1.25±0.2 | 1.20±0.2 | 0.50 | 0.40 |

| TYPE | A | B | C | D |
|----------|------|------|------|------|
| HMCC11-I | 0.36 | 1.00 | 0.59 | 1.75 |
| HMCC21-I | 0.50 | 1.27 | 0.80 | 2.60 |



SMD Common Mode Choke - HMCC11-I Series

HMCC11-I series Electrical Characteristics

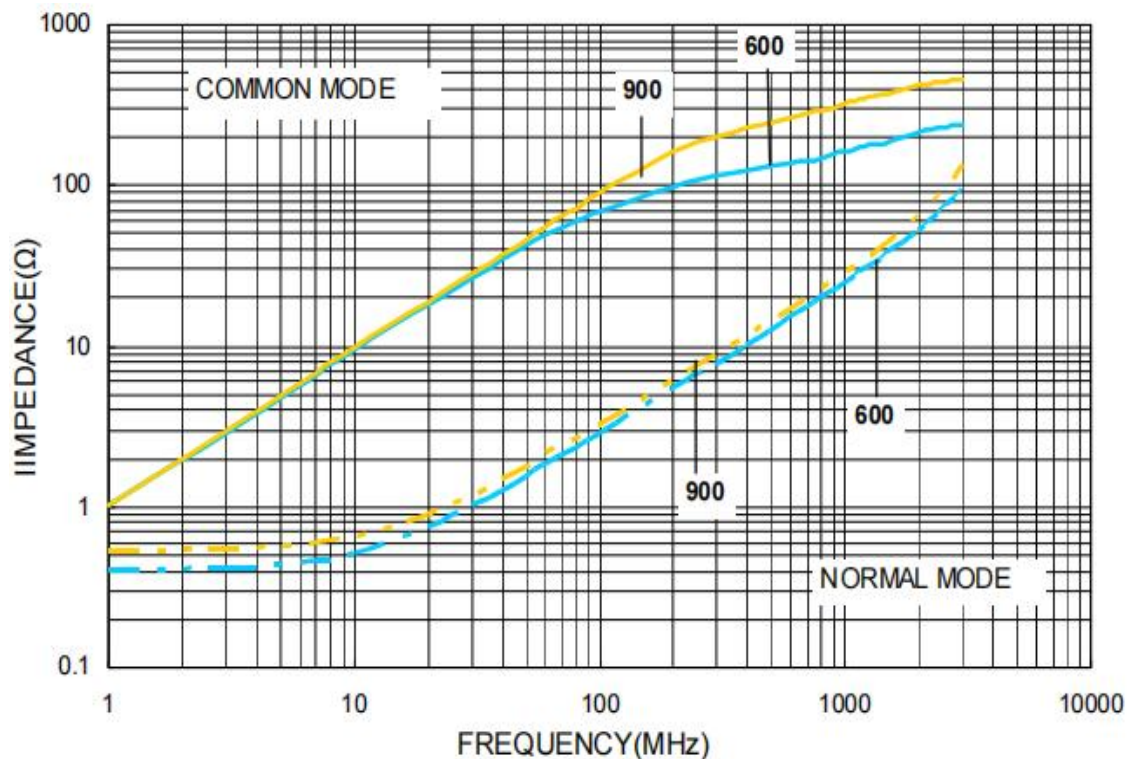
| Part No. | Impedance (Ω) | Tolerance ($\pm\%$) | Test Freq. (MHz) | RDC (Ω)Max | IDC (mA)Max | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (M Ω)Min |
|----------------|---------------------------|--------------------------|---------------------|------------------------|----------------|------------------------|----------------------------|---|
| HMCC11T-600Y-I | 60 | 25 | 100 | 0.40 | 250 | 50 | 125 | 100 |
| HMCC11T-900Y-I | 90 | 25 | 100 | 0.30 | 250 | 50 | 125 | 100 |

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

- Operating temperature range $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current

Test Instruments: Agilent E4991A Impedance / Material Analyzer

Typical Impedance vs. Frequency



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



SMD Common Mode Choke - HMCC11-I Series

HMCC11T-600Y-I

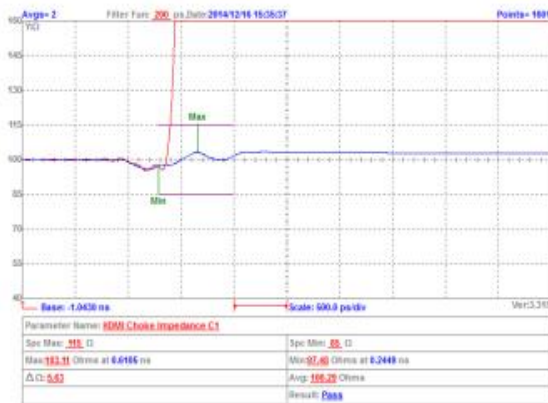
Insertion Loss For HDMI2.0 Testing:



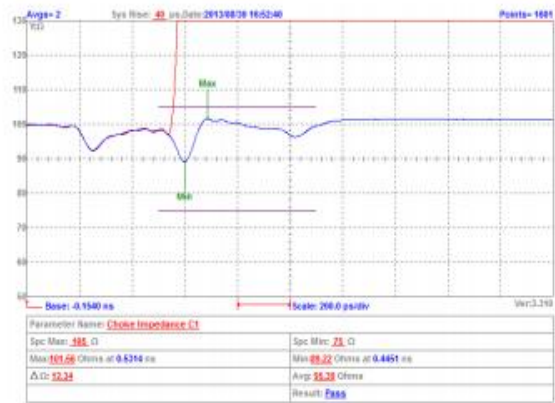
Insertion Loss For USB3.0 Testing:



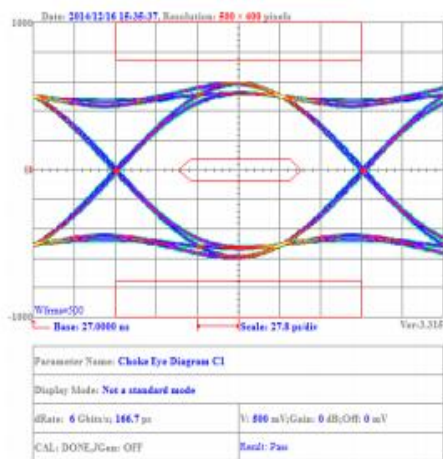
TDR For HDMI2.0 Testing:



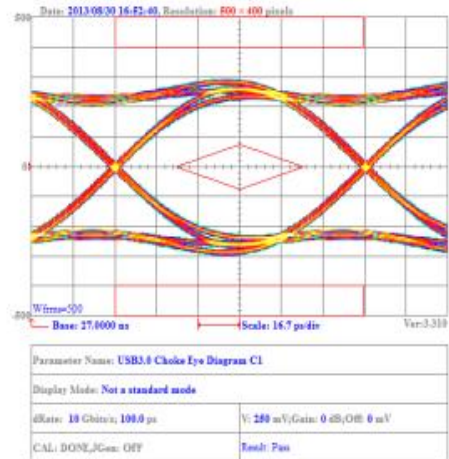
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



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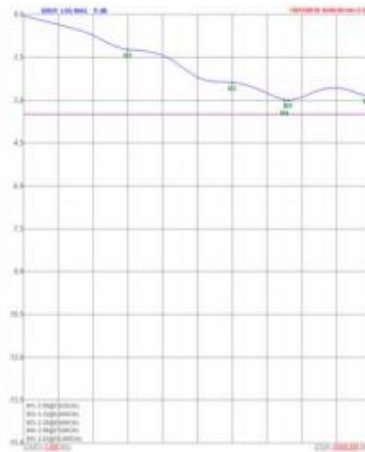
SMD Common Mode Choke - HMCC11-I Series

HMCC11T-900Y-I

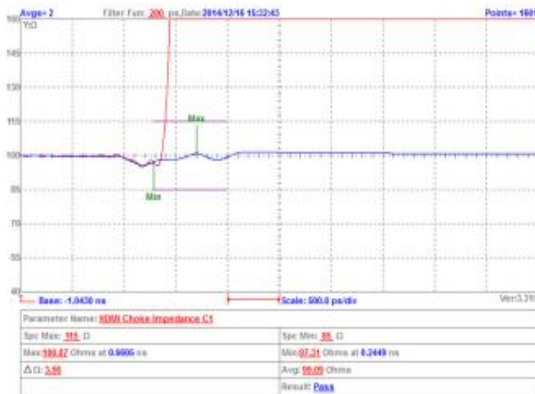
Insertion Loss For HDMI2.0 Testing:



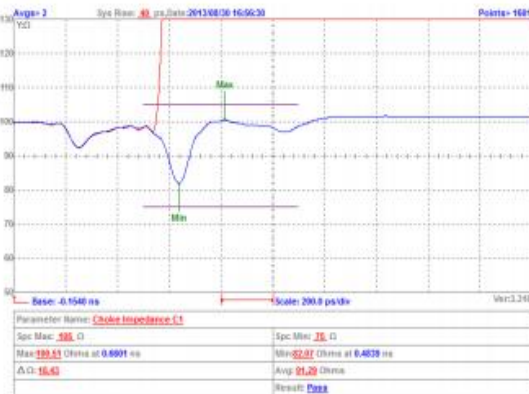
Insertion Loss For USB3.0 Testing:



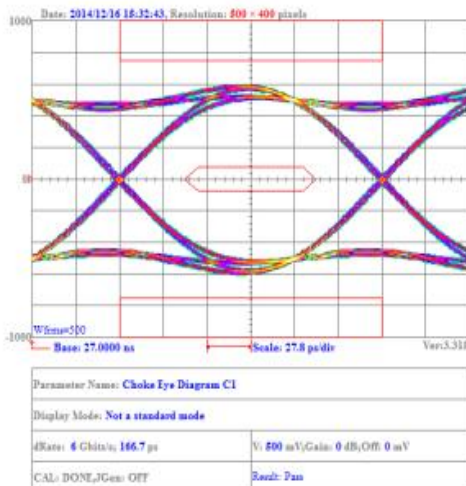
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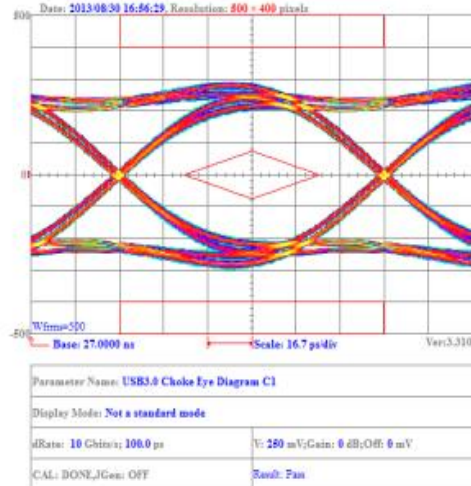
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



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SMD Common Mode Choke - HMCC21-I Series

HMCC21-I series Electrical Characteristics

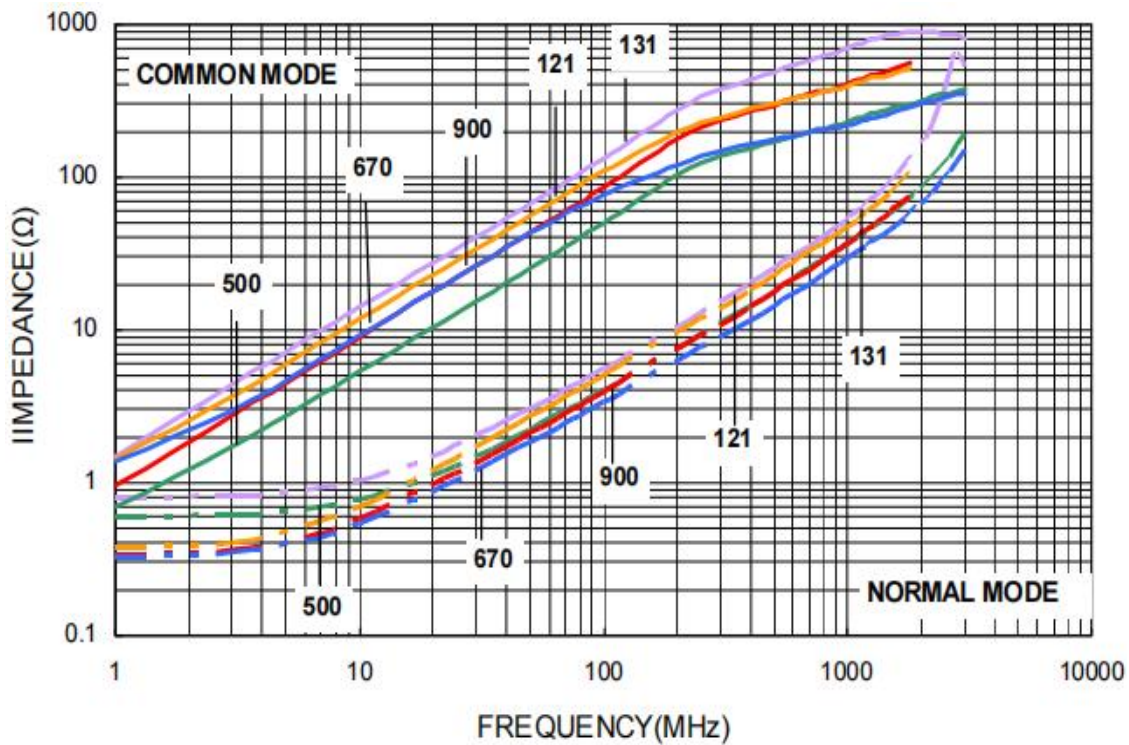
| Part No. | Impedance (Ω) | Tolerance ($\pm\%$) | Test Freq. (MHz) | RDC (Ω)Max | IDC (mA)Max | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (M Ω)Min |
|----------------|---------------------------|--------------------------|---------------------|------------------------|----------------|------------------------|----------------------------|---|
| HMCC21T-500Y-I | 50 | 25 | 100 | 0.20 | 500 | 50 | 125 | 10 |
| HMCC21T-680Y-I | 67 | 25 | 100 | 0.30 | 500 | 50 | 125 | 10 |
| HMCC21T-900Y-I | 90 | 25 | 100 | 0.30 | 500 | 50 | 125 | 10 |
| HMCC21T-121Y-I | 120 | 25 | 100 | 0.35 | 330 | 50 | 125 | 10 |
| HMCC21T-131Y-I | 130 | 25 | 100 | 0.40 | 300 | 50 | 125 | 10 |

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

- Operating temperature range $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current

Test Instruments: Agilent E4991A Impedance / Material Analyzer

Typical Impedance vs. Frequency



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



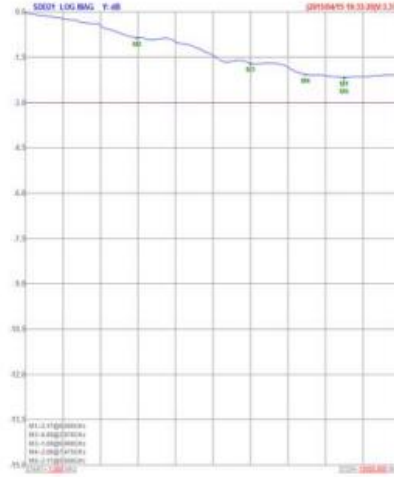
SMD Common Mode Choke - HMCC21-I Series

HMCC21T-500Y-I

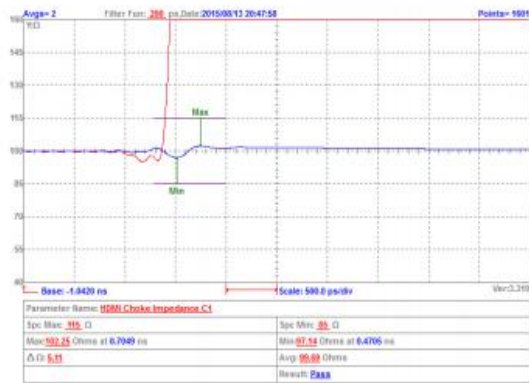
Insertion Loss For HDMI2.0 Testing:



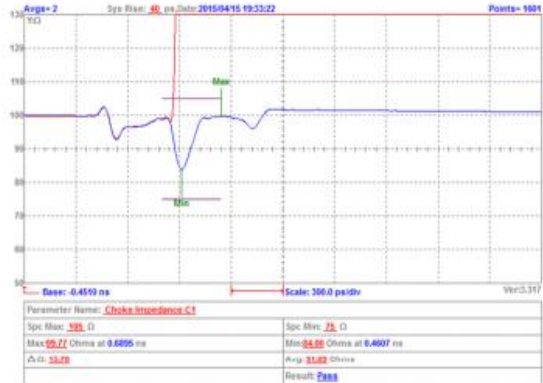
Insertion Loss For USB3.0 Testing:



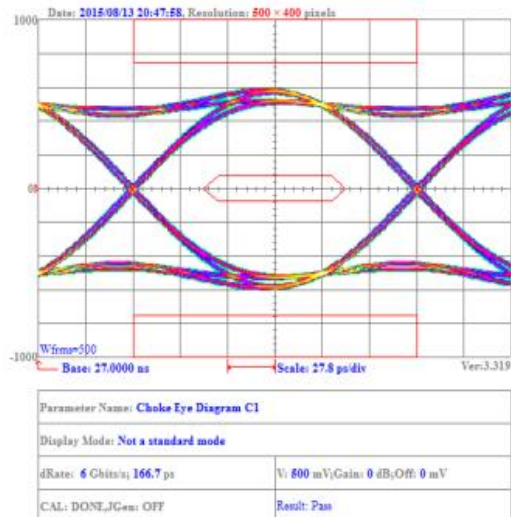
TDR For HDMI2.0 Testing:



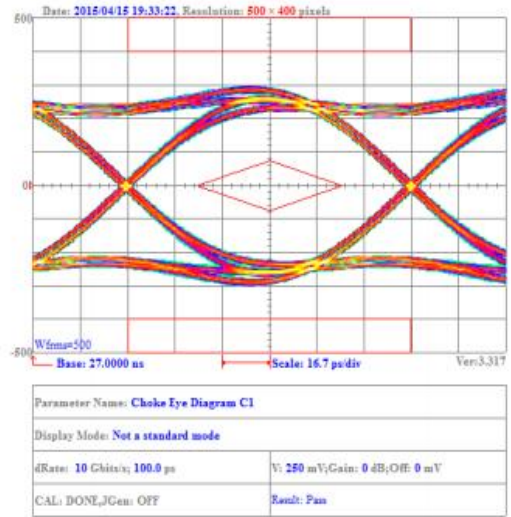
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



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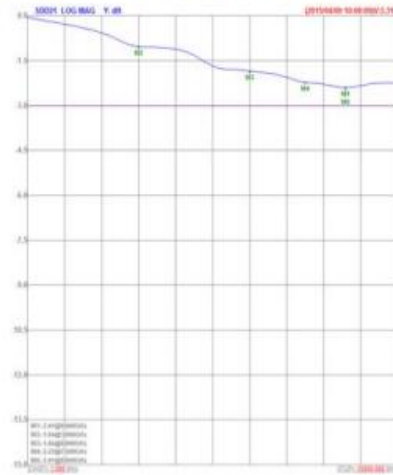
SMD Common Mode Choke - HMCC21-I Series

HMCC21T-670Y-I

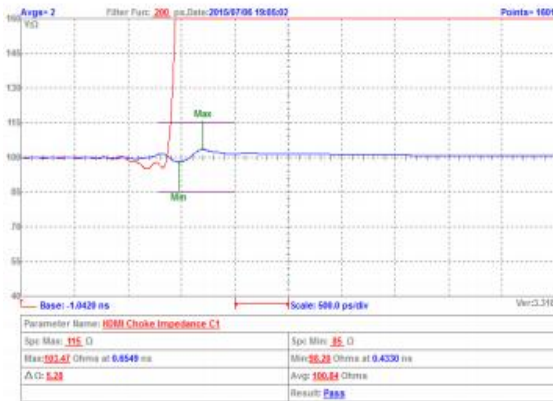
Insertion Loss For HDMI2.0 Testing:



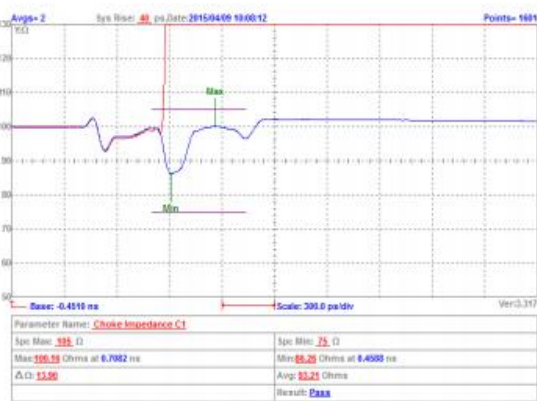
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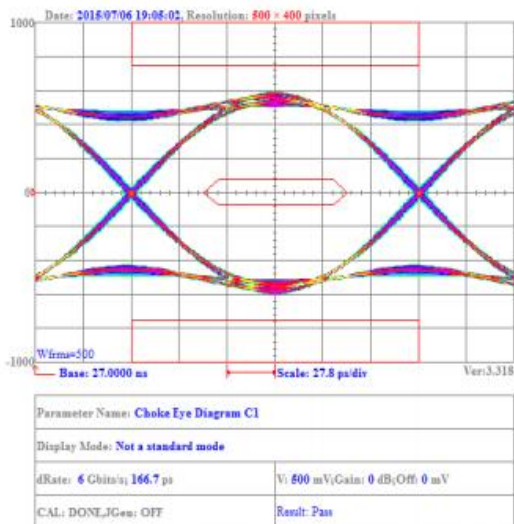
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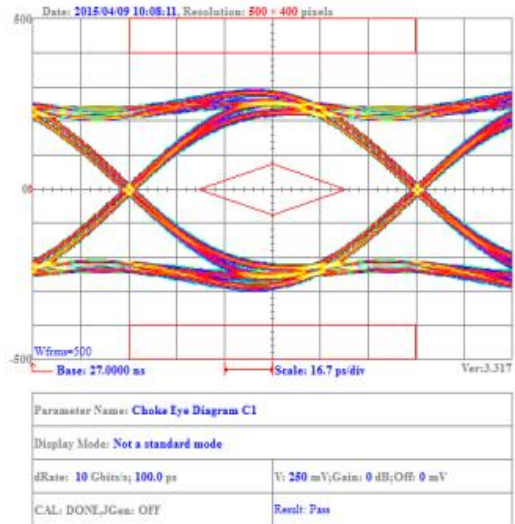
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



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SMD Common Mode Choke - HMCC21-I Series

HMCC21T-900Y-I

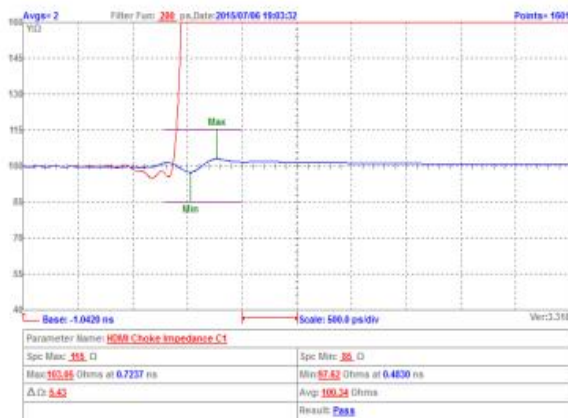
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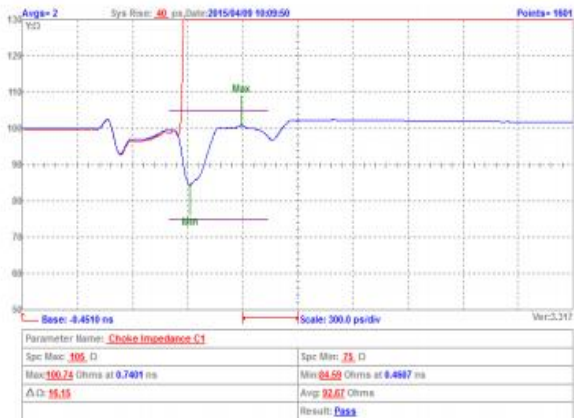
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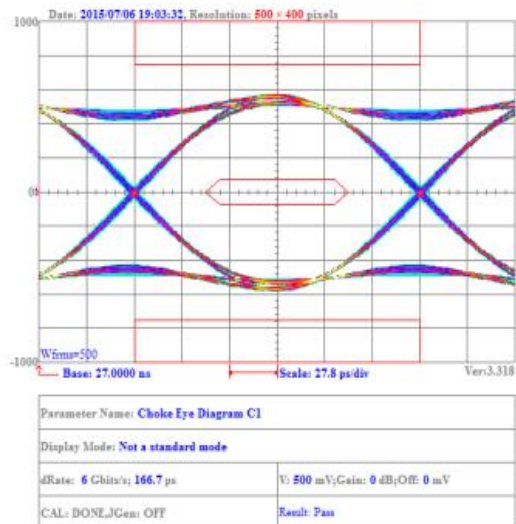
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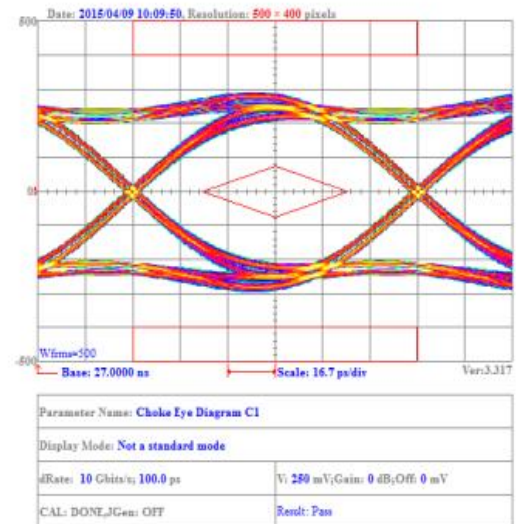
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



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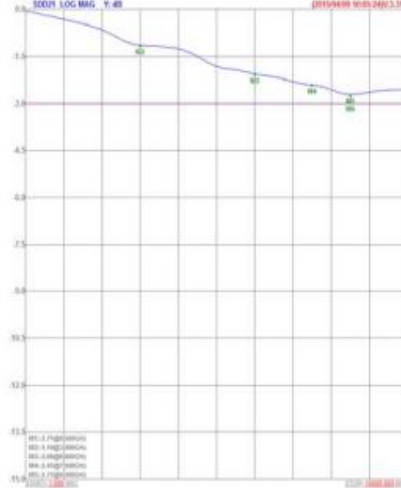
SMD Common Mode Choke - HMCC21-I Series

HMCC21T-121Y-I

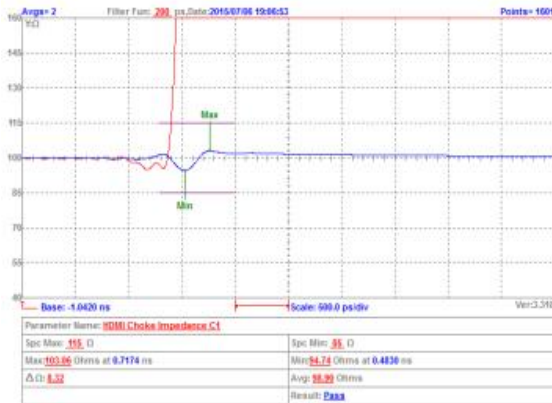
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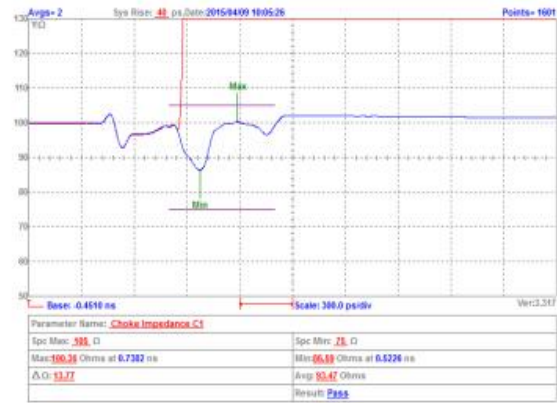
Insertion Loss For USB3.0 Testing:



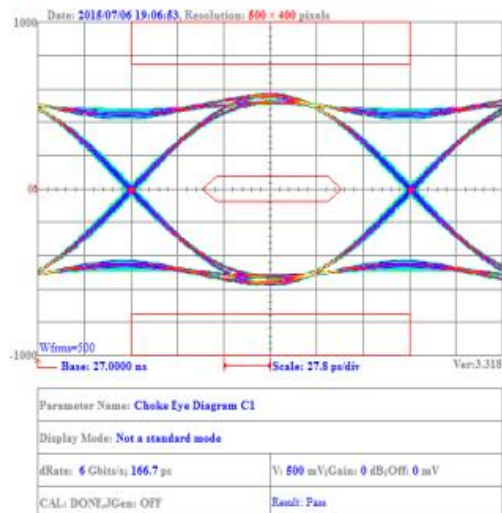
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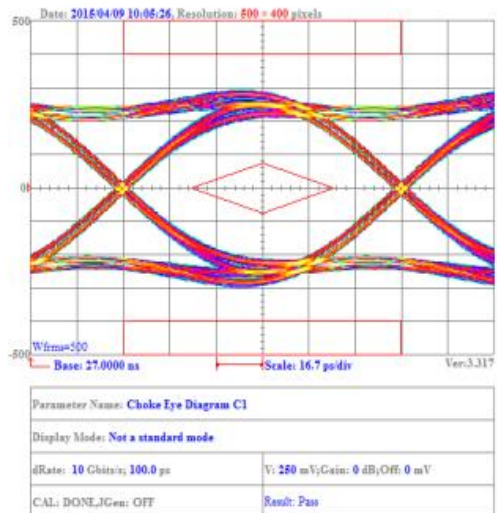
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



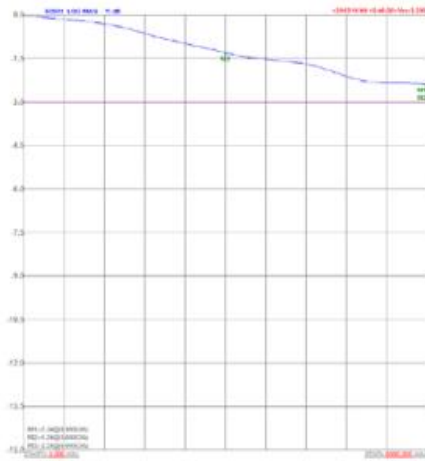
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



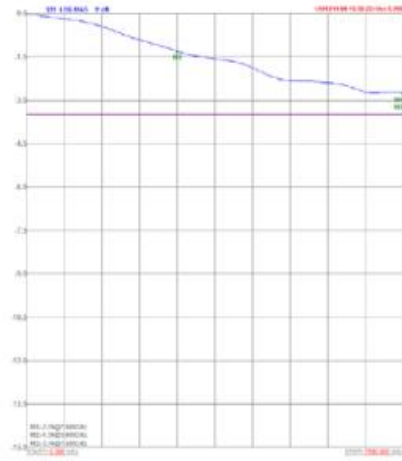
SMD Common Mode Choke - HMCC21-I Series

HMCC21T-131Y-I

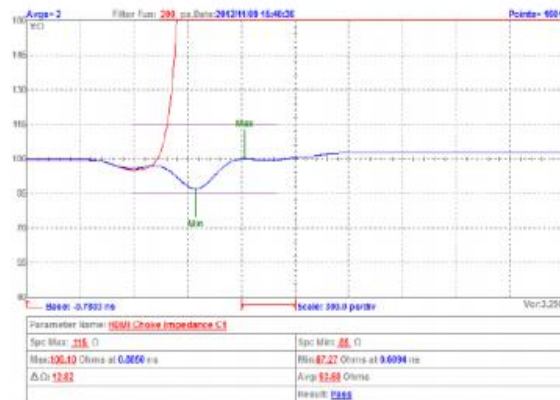
Insertion Loss For HDMI Testing:



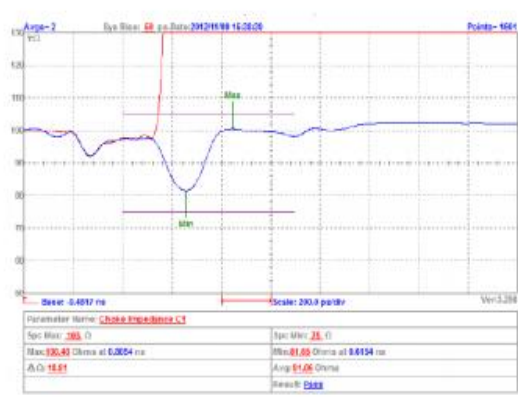
Insertion Loss For USB3.0 Testing:



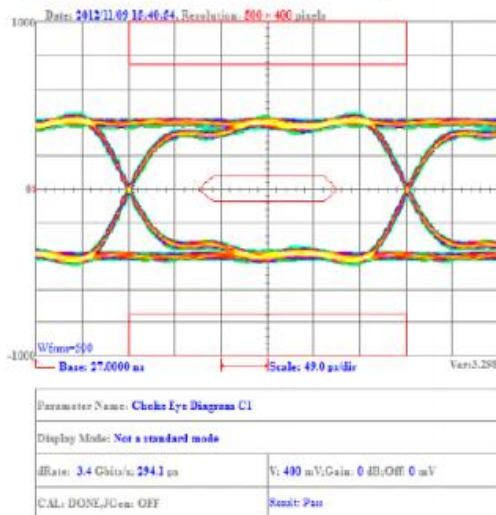
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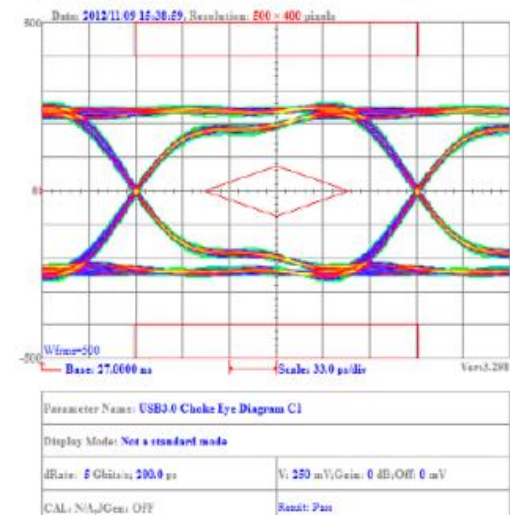
TDR For USB3.0 Testing:



Eye Diagram For HDMI Testing:



Eye Diagram For USB3.0 Testing:



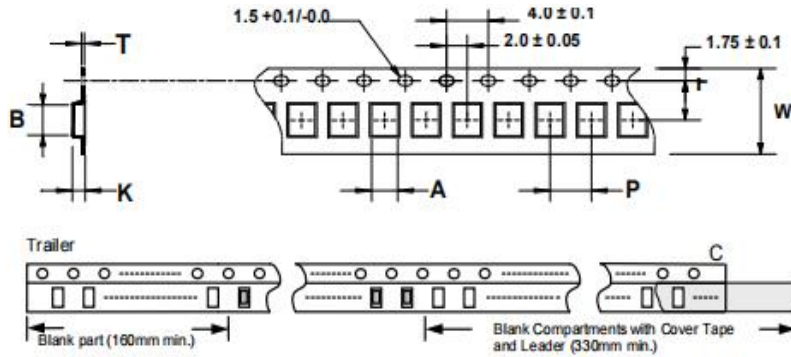
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



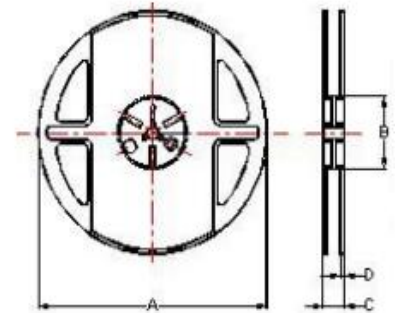
SMD Common Mode Choke - HMCC-I Series

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

| TYPE | Tape Dimensions | | | | | | | Reel Dimensions | | | | Quantity PCS/REEL |
|----------|-----------------|------|------|-----|-----|-----|------|-----------------|----|----|-----|----------------------|
| | A | B | T | W | P | F | K | A | B | C | D | |
| HMCC11-I | 1.15 | 1.45 | 0.25 | 8.0 | 4.0 | 3.5 | 1.00 | 178 | 60 | 12 | 1.5 | 2000 |
| HMCC21-I | 1.50 | 2.25 | 0.24 | 8.0 | 4.0 | 3.5 | 1.35 | 178 | 60 | 12 | 1.5 | 2000 |