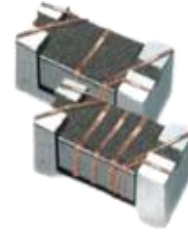




## SMD Common Mode Choke - HMCC-I Series-CA

### FEATURES

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



### ORDERING CODE(标志示例)

**HMCC**                   -                          -    **CA**  
 (1)            (2)                            (3)            (4)                            (5)

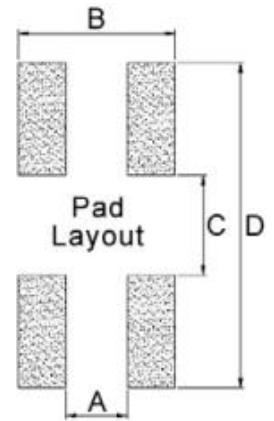
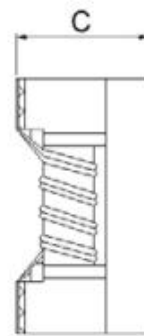
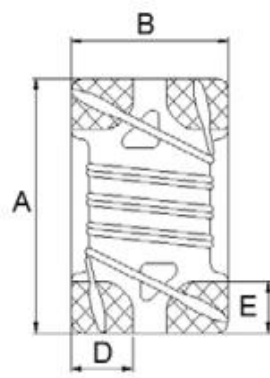
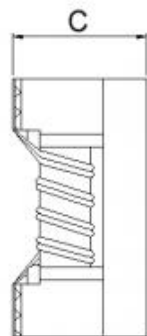
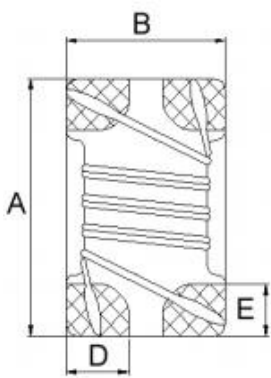
- (1) HMCC 向华料号 Part Number
- (2) 尺寸 Dimensions
- (3) 电感量 Inductance
- (4) 电感量公差 Inductance Tolerance
- (5) 尾码 Tail code

Shape and Dimensions

Recommended Pattern

HMCC11-I

HMCC21-I



### Dimensions in mm

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

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



## SMD Common Mode Choke - HMCC11-I Series-CA

### HMCC11-I series Electrical Characteristics

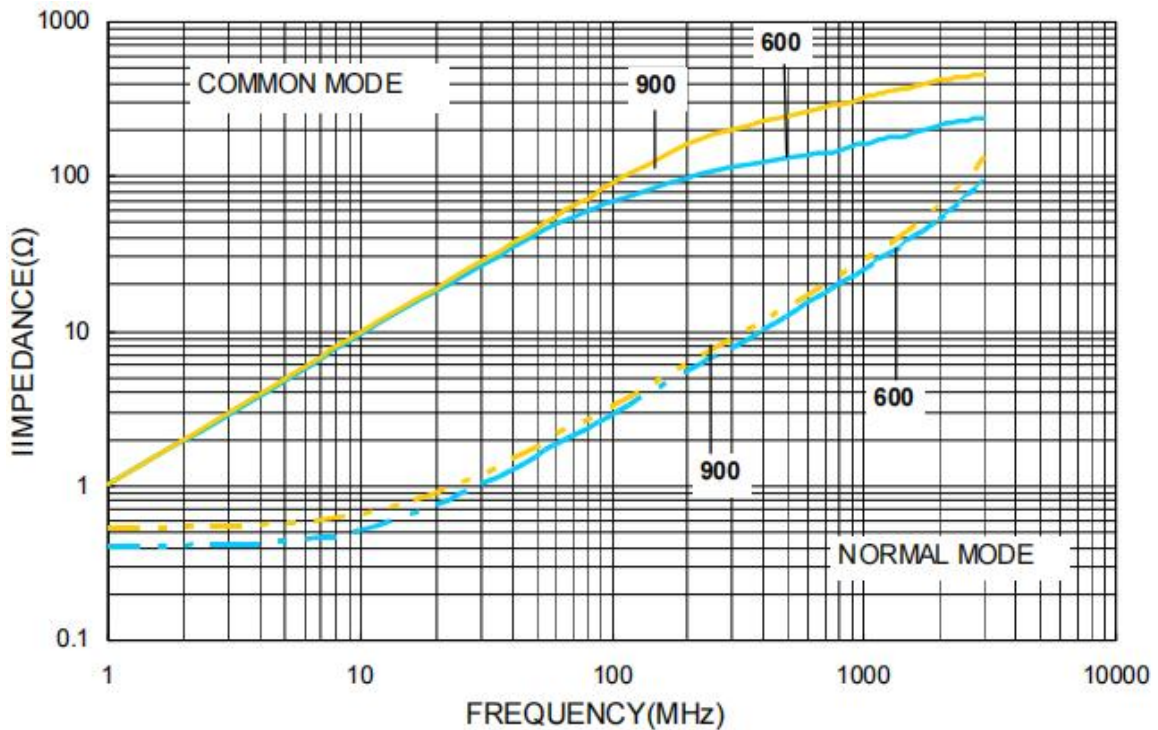
Part No.	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	RDC ( $\Omega$ )Max	IDC (mA)Max	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance (M $\Omega$ )Min
HMCC11T-600Y-I-CA	60	25	100	0.40	250	50	125	100
HMCC11T-900Y-I-CA	90	25	100	0.30	250	50	125	100

**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*



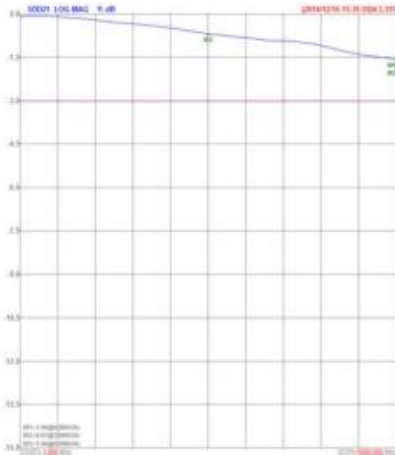
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



## SMD Common Mode Choke - HMCC11-I Series-CA

### HMCC11T-600Y-I

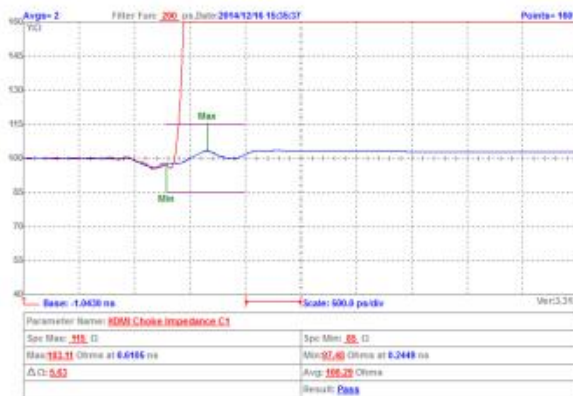
**Insertion Loss For HDMI2.0 Testing:**



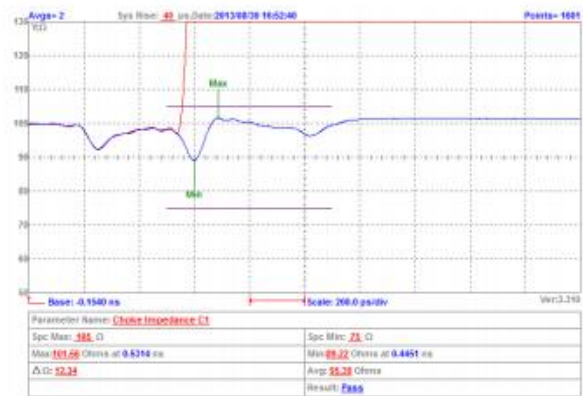
**Insertion Loss For USB3.0 Testing:**



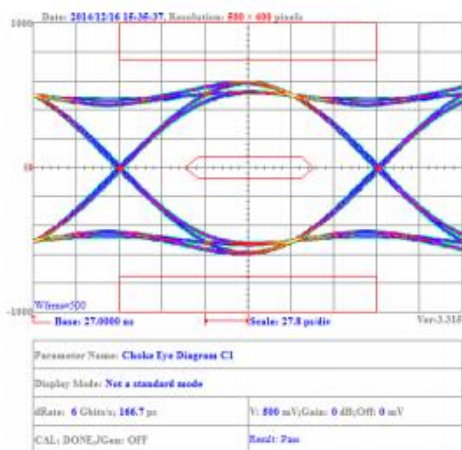
**TDR For HDMI2.0 Testing:**



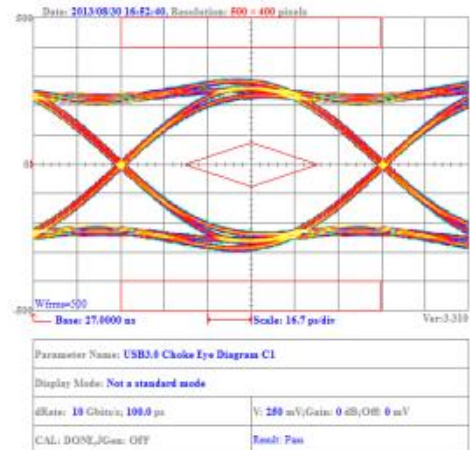
**TDR For USB3.0 Testing:**



**Eye Diagram For HDMI2.0 Testing:**



**Eye Diagram For USB3.0 Testing:**



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.



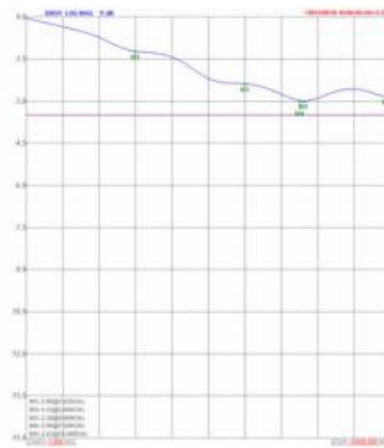
## SMD Common Mode Choke - HMCC11-I Series-CA

### HMCC11T-900Y-I

**Insertion Loss For HDMI2.0 Testing:**



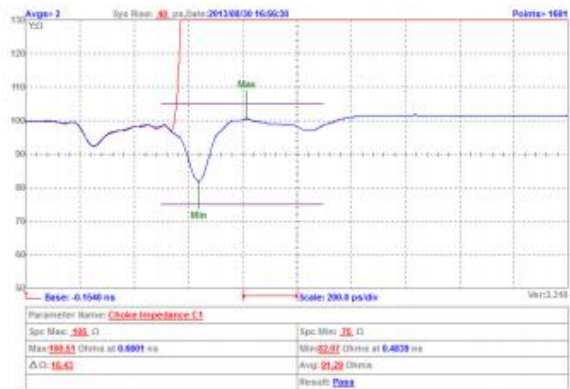
**Insertion Loss For USB3.0 Testing:**



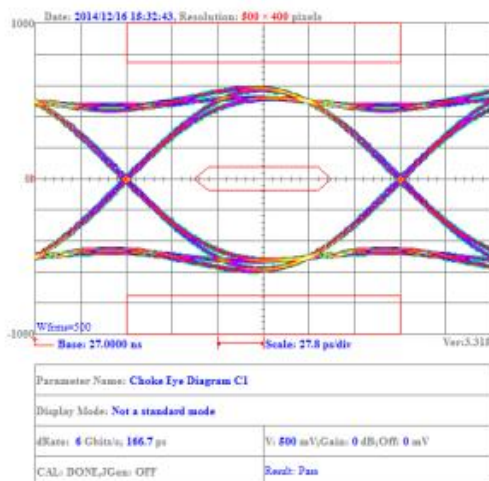
**TDR For HDMI2.0 Testing:**



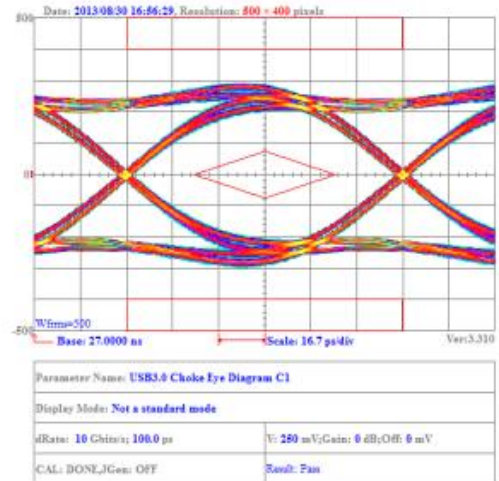
**TDR For USB3.0 Testing:**



**Eye Diagram For HDMI2.0 Testing:**



**Eye Diagram For USB3.0 Testing:**



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-CA

### HMCC21-I series Electrical Characteristics

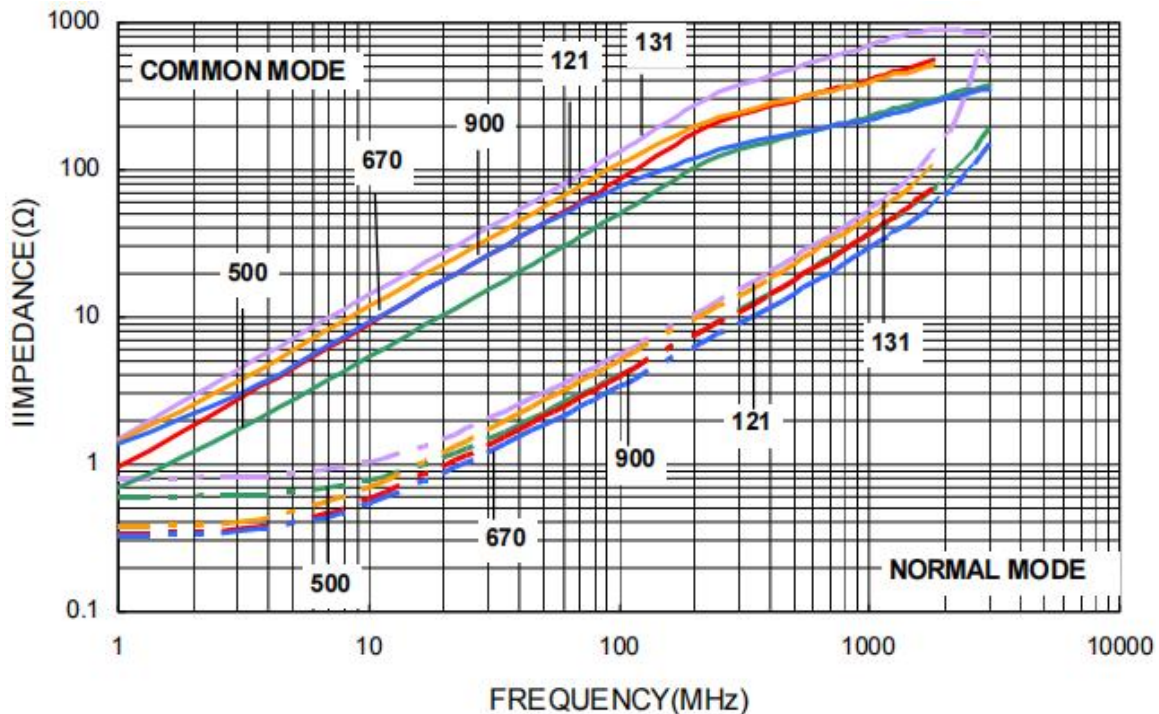
Part No.	Impedance ( $\Omega$ )	Tolerance ( $\pm\%$ )	Test Freq. (MHz)	RDC ( $\Omega$ )Max	IDC (mA)Max	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance (M $\Omega$ )Min
HMCC21T-500Y-I-CA	50	25	100	0.20	500	50	125	10
HMCC21T-680Y-I-CA	67	25	100	0.30	500	50	125	10
HMCC21T-900Y-I-CA	90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



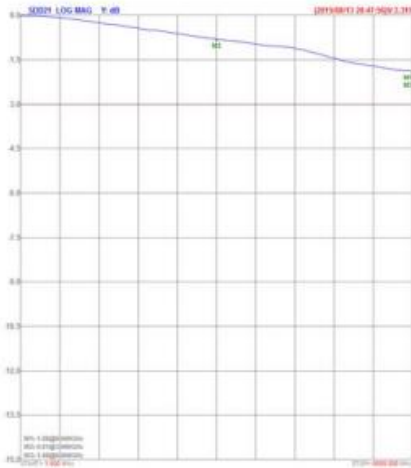
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



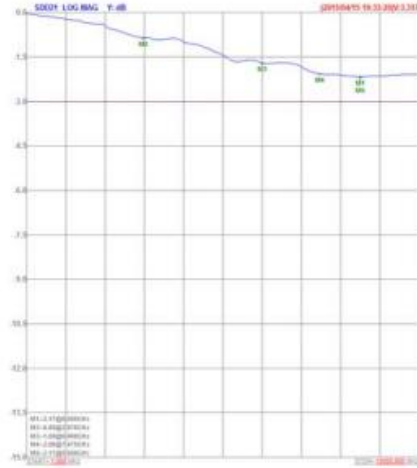
## SMD Common Mode Choke - HMCC21-I Series-CA

### HMCC21T-500Y-I

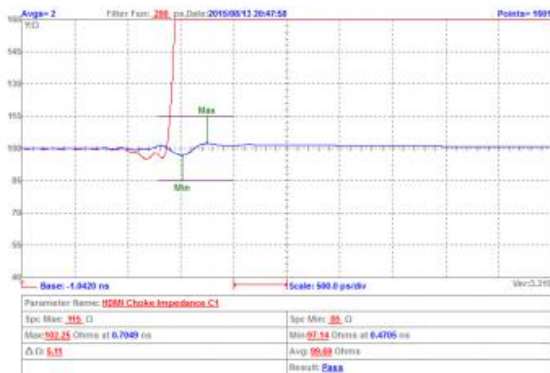
**Insertion Loss For HDMI2.0 Testing:**



**Insertion Loss For USB3.0 Testing:**



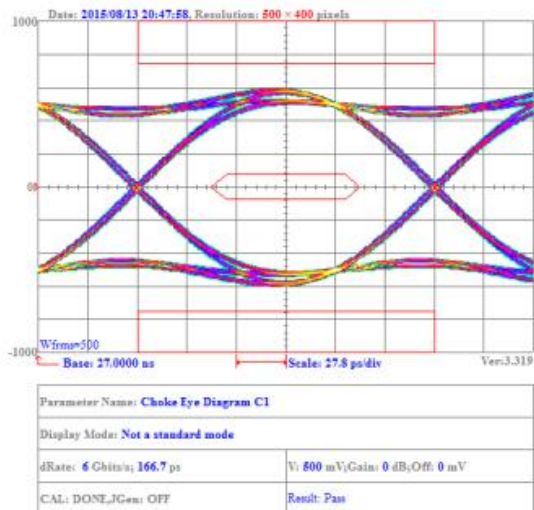
**TDR For HDMI2.0 Testing:**



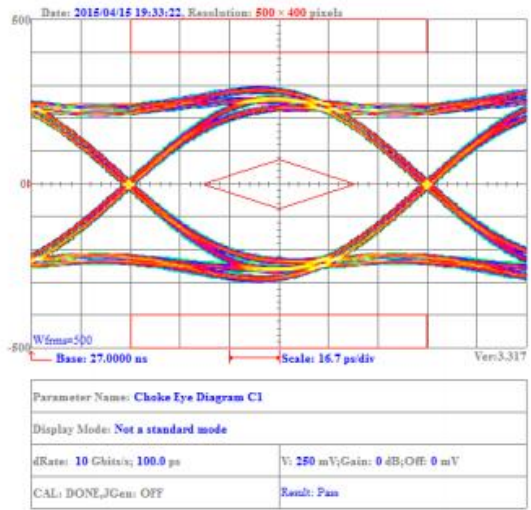
**TDR For USB3.0 Testing:**



**Eye Diagram For HDMI2.0 Testing:**



**Eye Diagram For USB3.0 Testing:**



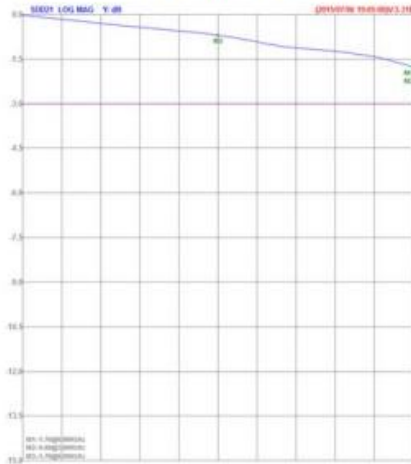
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



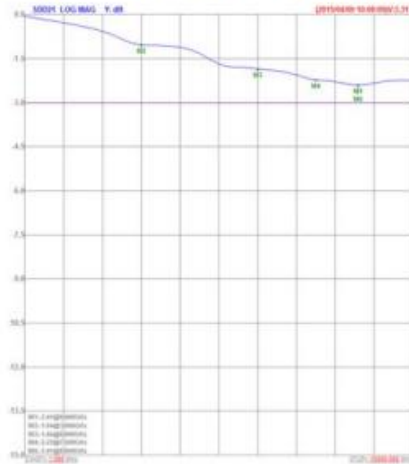
## SMD Common Mode Choke - HMCC21-I Series-CA

### HMCC21T-670Y-I

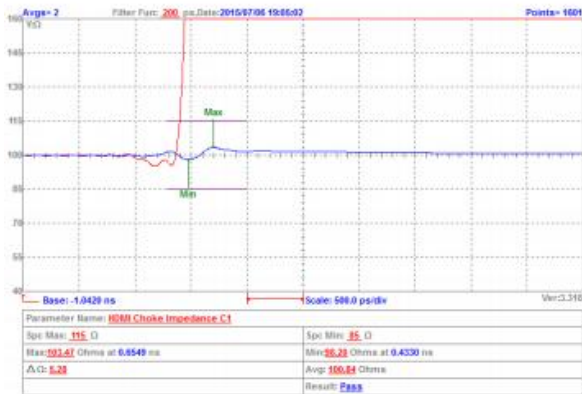
**Insertion Loss For HDMI2.0 Testing:**



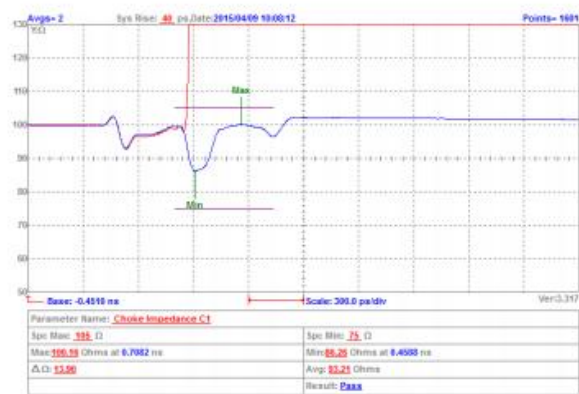
**Insertion Loss For USB3.0 Testing:**



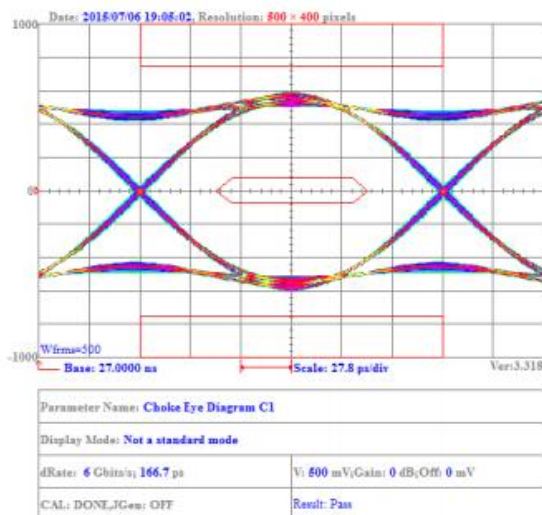
**TDR For HDMI2.0 Testing:**



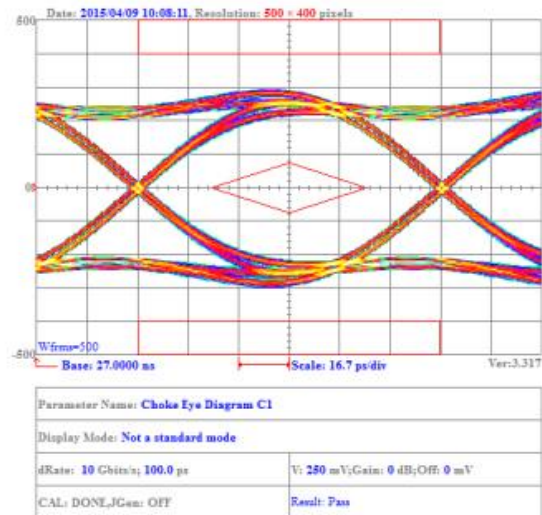
**TDR For USB3.0 Testing:**



**Eye Diagram For HDMI2.0 Testing:**



**Eye Diagram For USB3.0 Testing:**



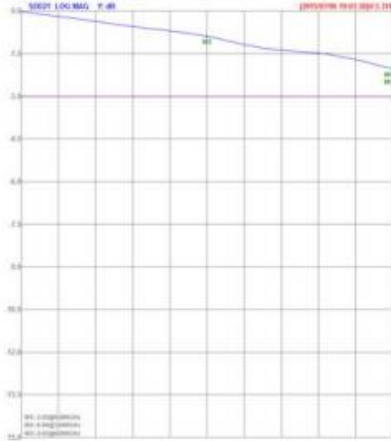
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



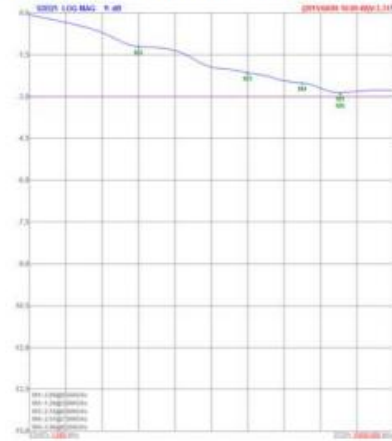
## SMD Common Mode Choke - HMCC21-I Series-CA

### HMCC21T-900Y-I

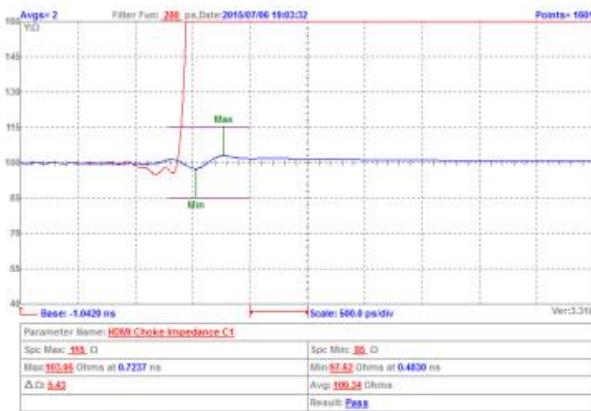
**Insertion Loss For HDMI2.0 Testing:**



**Insertion Loss For USB3.0 Testing:**



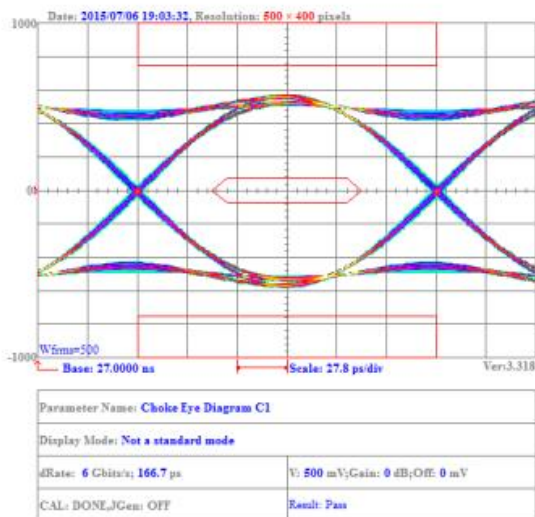
**TDR For HDMI2.0 Testing:**



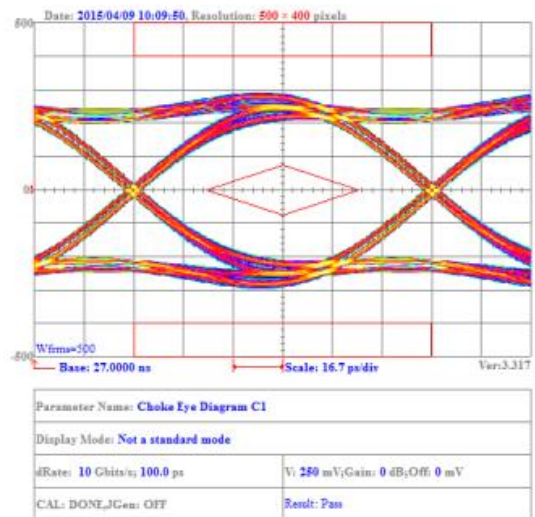
**TDR For USB3.0 Testing:**



**Eye Diagram For HDMI2.0 Testing:**



**Eye Diagram For USB3.0 Testing:**



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.

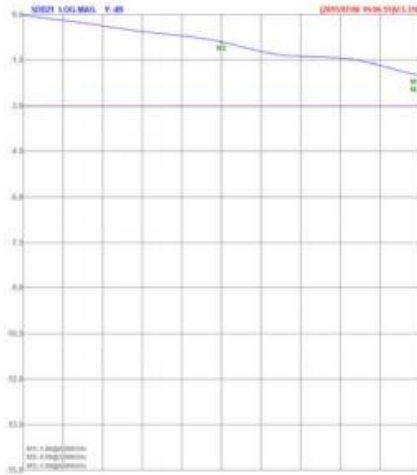




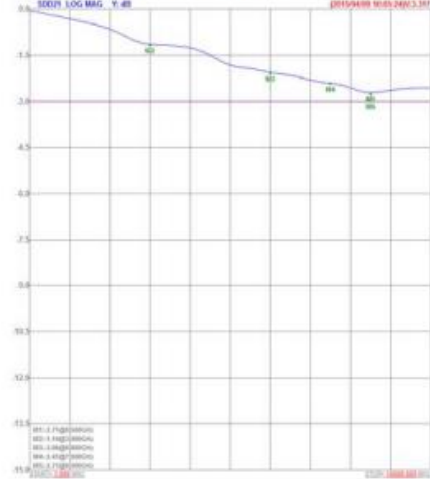
## SMD Common Mode Choke - HMCC21-I Series-CA

### HMCC21T-121Y-I

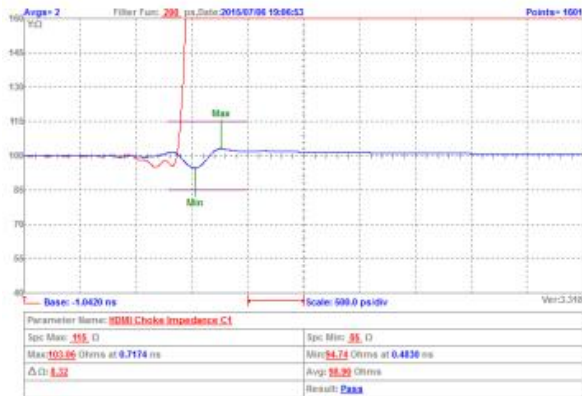
**Insertion Loss For HDMI2.0 Testing:**



**Insertion Loss For USB3.0 Testing:**



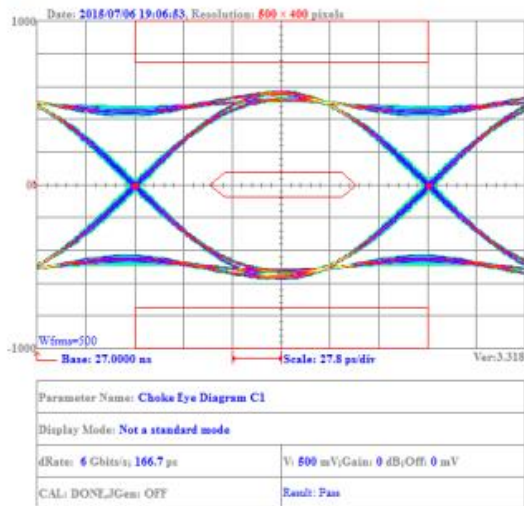
**TDR For HDMI2.0 Testing:**



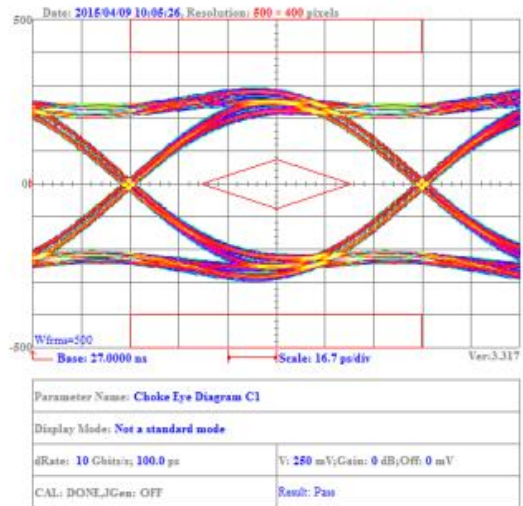
**TDR For USB3.0 Testing:**



**Eye Diagram For HDMI2.0 Testing:**



**Eye Diagram For USB3.0 Testing:**



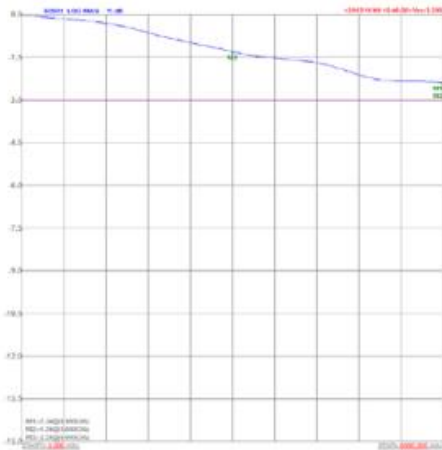
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



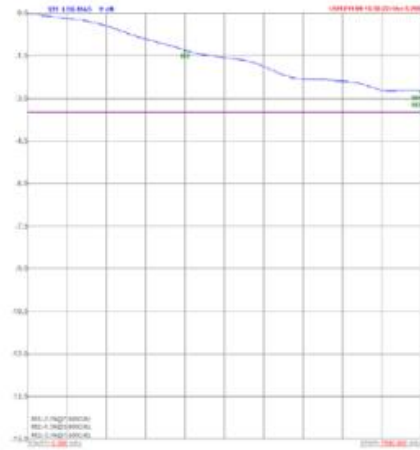
## SMD Common Mode Choke - HMCC21-I Series-CA

### HMCC21T-131Y-I

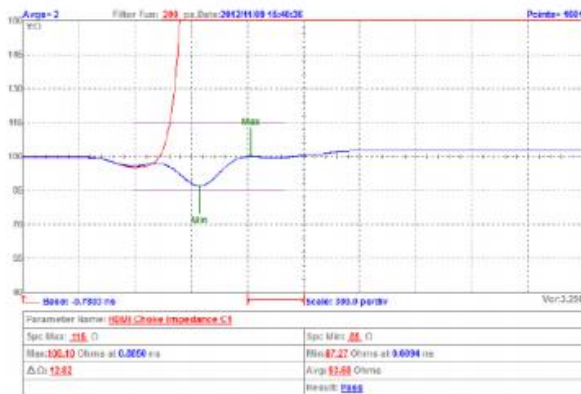
**Insertion Loss For HDMI Testing:**



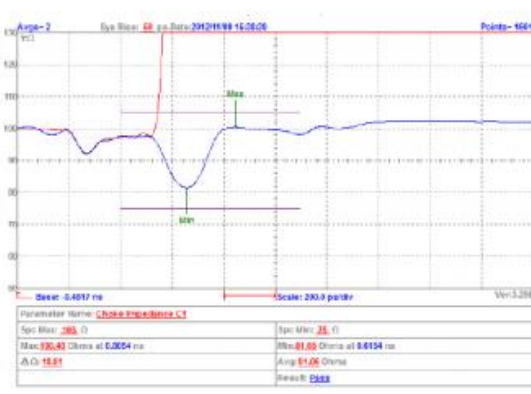
**Insertion Loss For USB3.0 Testing:**



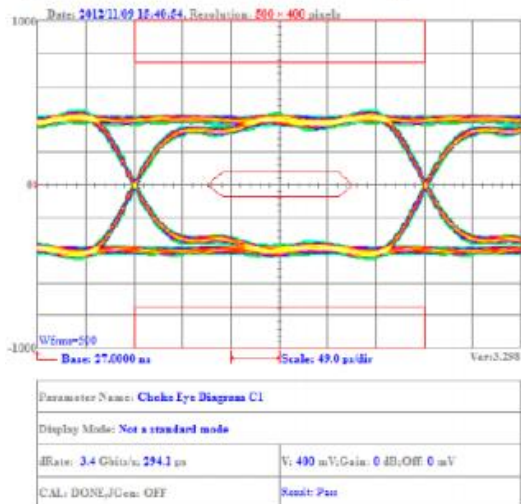
**TDR For HDMI Testing:**



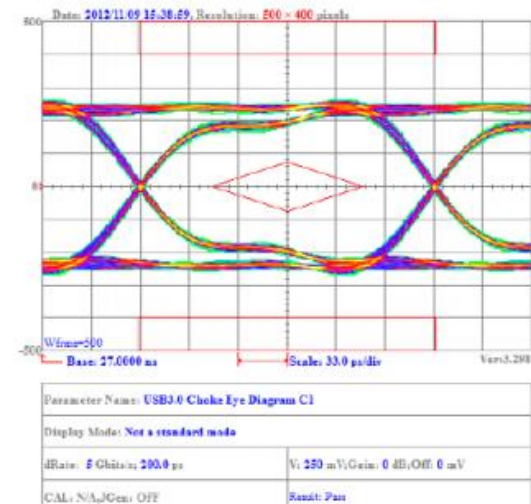
**TDR For USB3.0 Testing:**



**Eye Diagram For HDMI Testing:**



**Eye Diagram For USB3.0 Testing:**



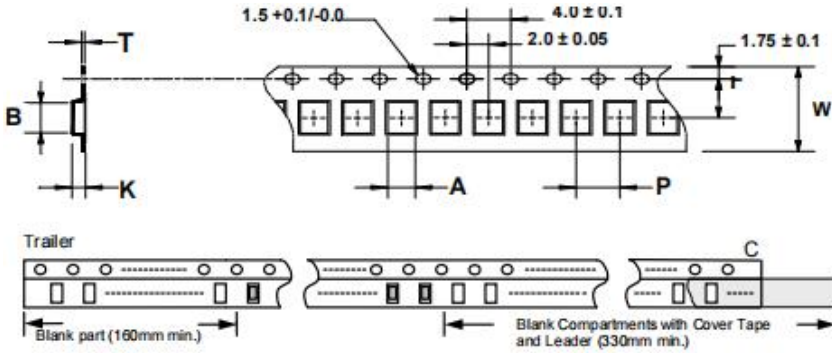
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



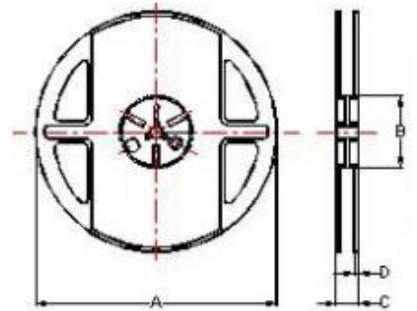
## SMD Common Mode Choke - HMCC-I Series-CA

### 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-CA	1.15	1.45	0.25	8.0	4.0	3.5	1.00	178	60	12	1.5	2000
HMCC21-I-CA	1.50	2.25	0.24	8.0	4.0	3.5	1.35	178	60	12	1.5	2000