

# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications



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

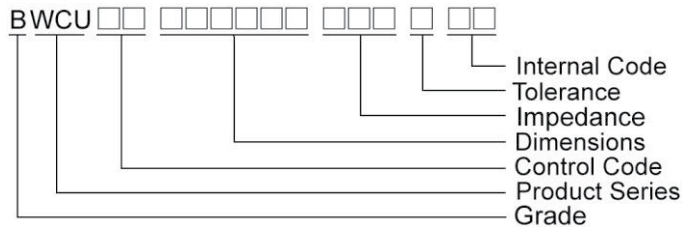
## Features

- RoHS Compliant
- Miniature SMD type common mode filter for fully automated assembly
- Wide impedance range (30Ω ~ 2200Ω) for noise suppression
- Excellent solderability

## Applications

- USB line for personal computers and peripheral
- IEEE 1394 line for personal computers, DVC, STB
- LVDS, panel line for liquid display panels, graph card, etc.

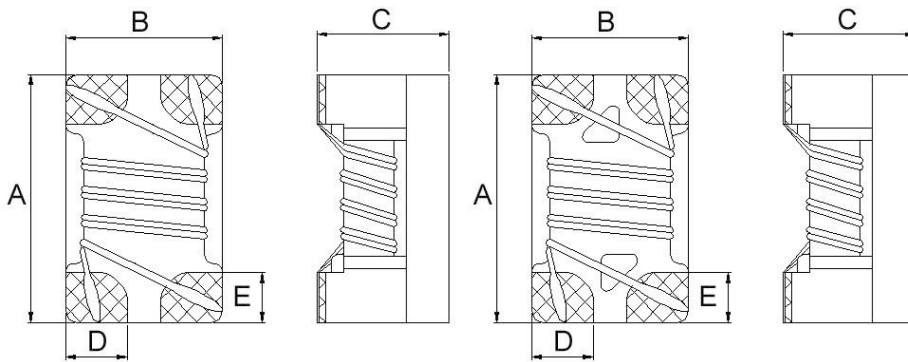
## Product Identification



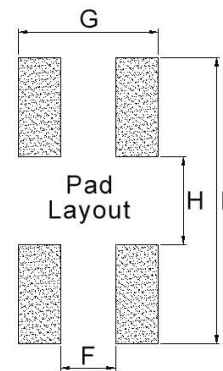
## Shape and Dimensions

BWCU00160811/ 121008/ 321619

BWCU00201212



## Recommended Pattern



Dimensions in mm

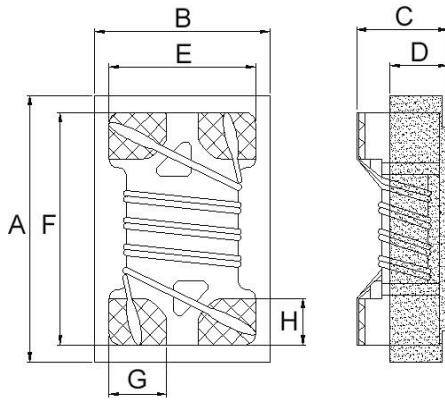
| TYPE         | A        | B        | C        | D    | E    | F    | G    | H    | I    |
|--------------|----------|----------|----------|------|------|------|------|------|------|
| BWCU00160811 | 1.60±0.2 | 0.80±0.2 | 1.10±0.2 | 0.25 | 0.33 | 0.25 | 0.75 | 0.61 | 2.29 |
| BWCU00121008 | 1.25±0.2 | 1.00±0.2 | 0.8±0.1  | 0.32 | 0.33 | 0.36 | 1.00 | 0.59 | 1.75 |
| BWCU00201212 | 2.05±0.2 | 1.25±0.2 | 1.20±0.2 | 0.50 | 0.40 | 0.50 | 1.27 | 0.80 | 2.60 |
| BWCU00321619 | 3.20±0.2 | 1.60±0.2 | 1.90±0.2 | 0.50 | 0.60 | 0.40 | 1.60 | 1.60 | 3.70 |

# SMD Common Mode Choke

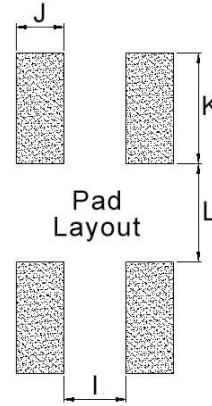
BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications

## Shape and Dimensions

**BWCU00231512**



## Recommended Pattern



Dimensions in mm

| TYPE         | A                  | B                  | C                  | D   | E    | F    | G   | H    | I   | J    | K   | L   |
|--------------|--------------------|--------------------|--------------------|-----|------|------|-----|------|-----|------|-----|-----|
| BWCU00231512 | 2.29 <sup>+0</sup> | 1.52 <sup>+0</sup> | 1.20 <sup>+0</sup> | 0.5 | 1.27 | 2.03 | 0.5 | 0.40 | 0.5 | 0.38 | 0.9 | 0.8 |

# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications



## Electrical Characteristics

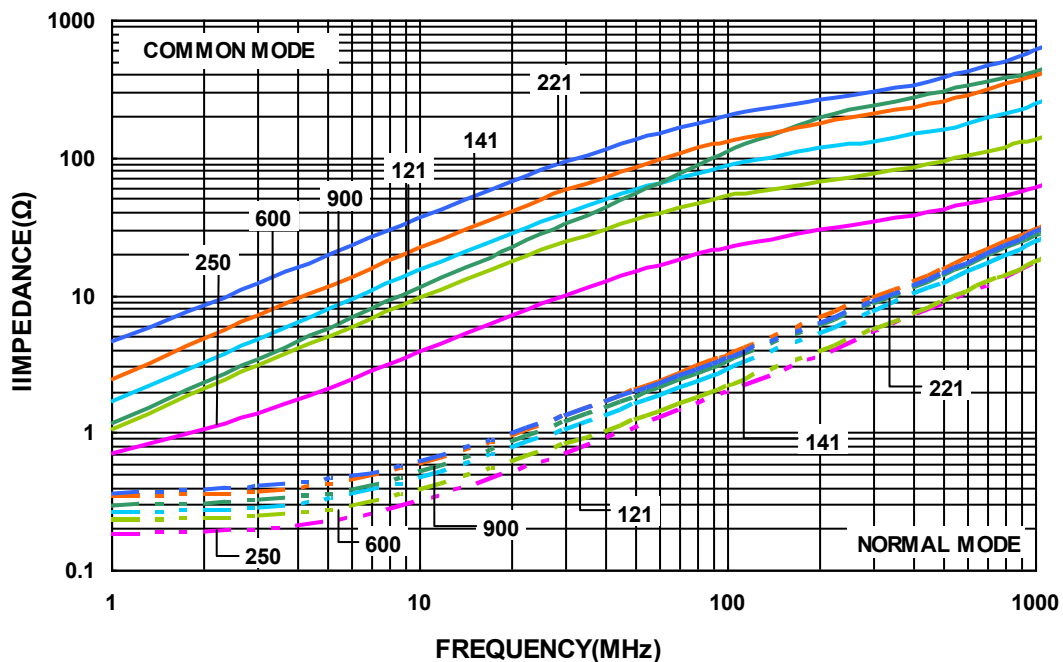
| Part Number        | Impedance (Ω) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) Max | I <sub>rms</sub> (mA) Max | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (MΩ) Min |
|--------------------|---------------|----------------|----------------------|-------------|---------------------------|---------------------|-------------------------|--------------------------------|
| BWCU00160811250M02 | 25            | 20,25          | 100                  | 0.077       | 500                       | 50                  | 125                     | 10                             |
| BWCU00160811600M02 | 60            | 20,25          | 100                  | 0.109       | 500                       | 50                  | 125                     | 10                             |
| BWCU00160811900M02 | 90            | 20,25          | 100                  | 0.142       | 500                       | 50                  | 125                     | 10                             |
| BWCU00160811121M02 | 120           | 20,25          | 100                  | 0.160       | 500                       | 50                  | 125                     | 10                             |
| BWCU00160811141M02 | 140           | 20,25          | 100                  | 0.174       | 500                       | 50                  | 125                     | 10                             |
| BWCU00160811221M02 | 220           | 20,25          | 100                  | 0.209       | 500                       | 50                  | 125                     | 10                             |

**Note:** When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25%

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- rms for 20°C rise from 25°C ambient
- Measure Equipment :  
 Z : Agilent HP4287A+Agilent 16197A  
 RDC : HP4338B or Chroma 16502 (Single Wire Test Value)  
 I<sub>rms</sub> : HP4284A+HP42841A/HP4285A+HP42841A  
 Insulation Resistance : Agilent HP4339B

**Test Instruments :** HP4287A Material/Impedance Analyzer

Typical Impedance vs. Frequency



# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications



## Electrical Characteristics

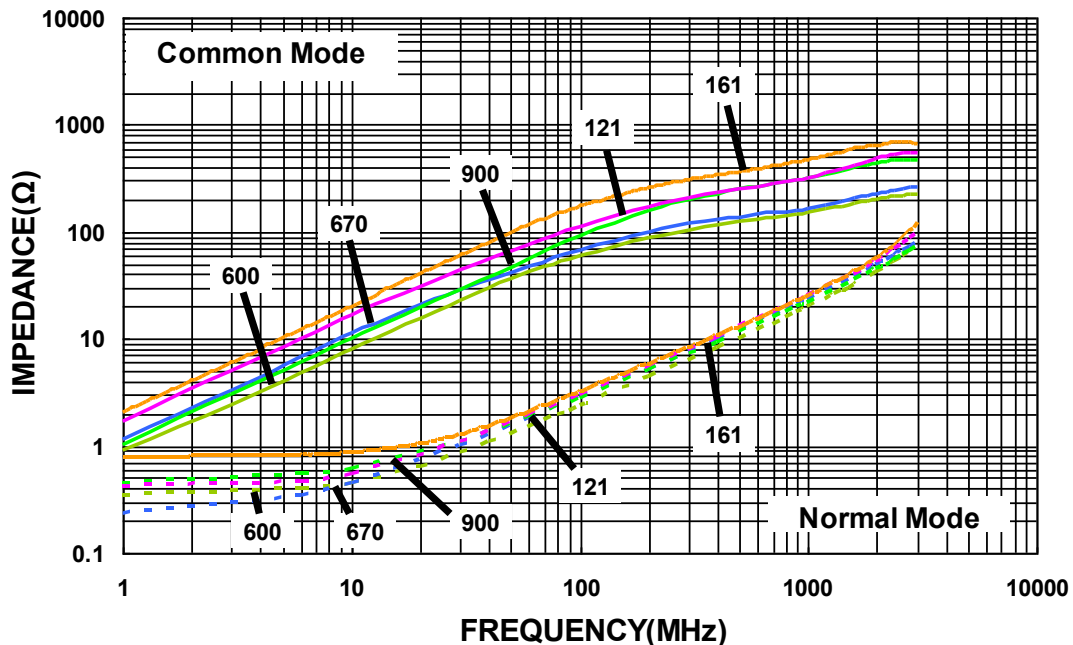
| Part Number        | Impedance (Ω) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (MΩ) Min |
|--------------------|---------------|----------------|----------------------|-------------|----------|---------------------|-------------------------|--------------------------------|
| BWCU00121008250T02 | 25            | 30             | 100                  | 0.30        | 400      | 50                  | 125                     | 100                            |
| BWCU00121008600M02 | 60            | 20             | 100                  | 0.40        | 300      | 50                  | 125                     | 100                            |
| BWCU00121008670M02 | 67            | 20             | 100                  | 0.25        | 300      | 50                  | 125                     | 100                            |
| BWCU00121008900M02 | 90            | 20             | 100                  | 0.30        | 250      | 50                  | 125                     | 100                            |
| BWCU00121008121M02 | 120           | 20             | 100                  | 0.40        | 200      | 50                  | 125                     | 100                            |
| BWCU00121008161M02 | 160           | 20             | 100                  | 0.43        | 160      | 50                  | 125                     | 100                            |
| BWCU00121008201M02 | 200           | 20             | 100                  | 0.80        | 120      | 50                  | 125                     | 100                            |
| BWCU00121008331Y02 | 330           | 25             | 100                  | 1.30        | 100      | 50                  | 125                     | 100                            |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25% , T=±30%**

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :  
 Z : Agilent HP4287A+Agilent 16197A  
 RDC : Chroma 16502 (Single Wire Test Value)  
 IDC : HP4284A+HP42841A/HP4285A+HP42841A  
 Insulation Resistance : Agilent HP4339B

## Test Instruments : HP4287A Material/Impedance Analyzer

Typical Impedance vs. Frequency



# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications



## Electrical Characteristics

| Part Number        | Impedance<br>( $\Omega$ ) | Tolerance<br>( $\pm\%$ ) | Test<br>Frequency<br>(MHz) | RDC<br>( $\Omega$ ) Max | IDC<br>(mA) | Rated<br>Voltage<br>(Vdc) | Withstand<br>Voltage<br>(Vdc) | Insulation<br>Resistance<br>(M $\Omega$ ) Min |
|--------------------|---------------------------|--------------------------|----------------------------|-------------------------|-------------|---------------------------|-------------------------------|---|
| BWCU00201212300M02 | 30                        | 20                       | 100                        | 0.20                    | 450         | 50                        | 125                           | 10  |
| BWCU00201212670M02 | 67                        | 20                       | 100                        | 0.25                    | 400         | 50                        | 125                           | 10  |
| BWCU00201212750M02 | 75                        | 20                       | 100                        | 0.30                    | 360         | 50                        | 125                           | 10  |
| BWCU00201212900M02 | 90                        | 20                       | 100                        | 0.35                    | 330         | 50                        | 125                           | 10  |
| BWCU00201212121M02 | 120                       | 20                       | 100                        | 0.30                    | 400         | 50                        | 125                           | 10  |
| BWCU00201212161M02 | 160                       | 20                       | 100                        | 0.35                    | 350         | 50                        | 125                           | 10  |
| BWCU00201212181M02 | 180                       | 20                       | 100                        | 0.35                    | 330         | 50                        | 125                           | 10  |
| BWCU00201212201M02 | 200                       | 20                       | 100                        | 0.35                    | 330         | 50                        | 125                           | 10  |
| BWCU00201212221M02 | 220                       | 20                       | 100                        | 0.35                    | 310         | 50                        | 125                           | 10  |
| BWCU00201212261M02 | 260                       | 20                       | 100                        | 0.40                    | 300         | 50                        | 125                           | 10  |
| BWCU00201212301M02 | 300                       | 20                       | 100                        | 0.40                    | 290         | 50                        | 125                           | 10  |
| BWCU00201212361M02 | 360                       | 20                       | 100                        | 0.45                    | 280         | 50                        | 125                           | 10  |
| BWCU00201212371M02 | 370                       | 20                       | 100                        | 0.45                    | 280         | 50                        | 125                           | 10  |
| BWCU00201212501M02 | 500                       | 20                       | 100                        | 0.55                    | 170         | 50                        | 125                           | 10  |
| BWCU00201212671M02 | 670                       | 20                       | 100                        | 0.60                    | 140         | 50                        | 125                           | 10  |
| BWCU00201212801M02 | 800                       | 20                       | 100                        | 0.88                    | 300         | 50                        | 125                           | 10  |
| BWCU00201212901M02 | 900                       | 20                       | 100                        | 0.60                    | 80          | 50                        | 125                           | 10  |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :
  - Z : Agilent HP4287A+Agilent 16197A
  - RDC : Chroma 16502 (Single Wire Test Value)
  - IDC : HP4284A+HP42841A/HP4285A+HP42841A
  - Insulation Resistance : Agilent HP4339B

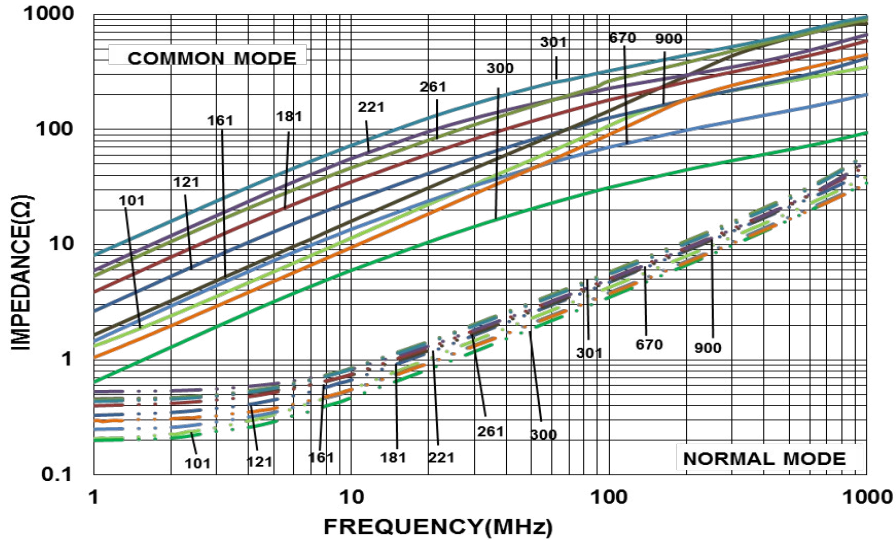
# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications



Test Instruments : HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency



## Electrical Characteristics

| Part Number        | Impedance (Ω) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (MΩ) Min |
|--------------------|---------------|----------------|----------------------|-------------|----------|---------------------|-------------------------|--------------------------------|
| BWCU00321619900M02 | 90            | 20             | 100                  | 0.3         | 370      | 50                  | 125                     | 10                             |
| BWCU00321619121M02 | 120           | 20             | 100                  | 0.3         | 370      | 50                  | 125                     | 10                             |
| BWCU00321619161M02 | 160           | 20             | 100                  | 0.4         | 340      | 50                  | 125                     | 10                             |
| BWCU00321619221M02 | 220           | 20             | 100                  | 0.4         | 320      | 50                  | 125                     | 10                             |
| BWCU00321619261M02 | 260           | 20             | 100                  | 0.5         | 310      | 50                  | 125                     | 10                             |
| BWCU00321619601M02 | 600           | 20             | 100                  | 0.8         | 260      | 50                  | 125                     | 10                             |
| BWCU00321619102M02 | 1000          | 20             | 100                  | 1.0         | 230      | 50                  | 125                     | 10                             |
| BWCU00321619222M02 | 2200          | 20             | 100                  | 1.2         | 200      | 50                  | 125                     | 10                             |

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :  
 Z : Agilent HP4287A+Agilent 16197A  
 RDC : Chroma 16502 (Single Wire Test Value)  
 IDC : HP4284A+HP42841A/HP4285A+HP42841A  
 Insulation Resistance : Agilent HP4339B

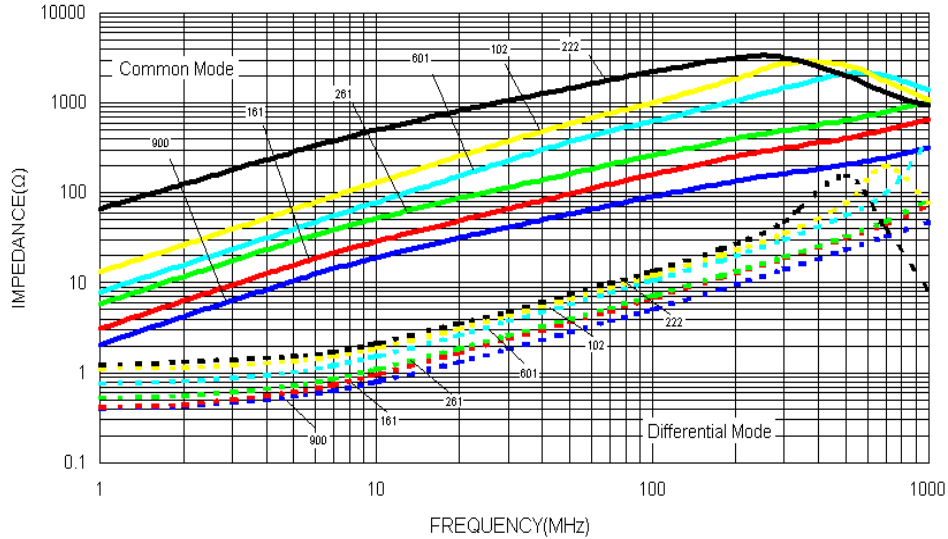
# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications



**Test Instruments :** HP4291A Material/Impedance Analyzer

**Typical Impedance vs. Frequency**



## Electrical Characteristics

| Part Number        | Impedance (Ω) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (MΩ) Min |
|--------------------|---------------|----------------|----------------------|-------------|----------|---------------------|-------------------------|--------------------------------|
| BWCU00231512300M02 | 30            | 20             | 100                  | 0.20        | 1300     | 50                  | 125                     | 10                             |
| BWCU00231512420M02 | 42            | 20             | 100                  | 0.20        | 1300     | 50                  | 125                     | 10                             |
| BWCU00231512670M02 | 67            | 20             | 100                  | 0.25        | 1200     | 50                  | 125                     | 10                             |
| BWCU00231512900M02 | 90            | 20             | 100                  | 0.27        | 1000     | 50                  | 125                     | 10                             |
| BWCU00231512121M02 | 120           | 20             | 100                  | 0.30        | 900      | 50                  | 125                     | 10                             |
| BWCU00231512181M02 | 180           | 20             | 100                  | 0.40        | 700      | 50                  | 125                     | 10                             |
| BWCU00231512261M02 | 260           | 20             | 100                  | 0.60        | 700      | 50                  | 125                     | 10                             |

**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current.
- Measure Equipment :
  - Z : Agilent HP4291A
  - RDC : HP4338B or Chroma 16502 (Single Wire Test Value)
  - IDC : HP4284A+HP42841A/HP4285A+HP42841A
  - Insulation Resistance : Agilent HP4339B

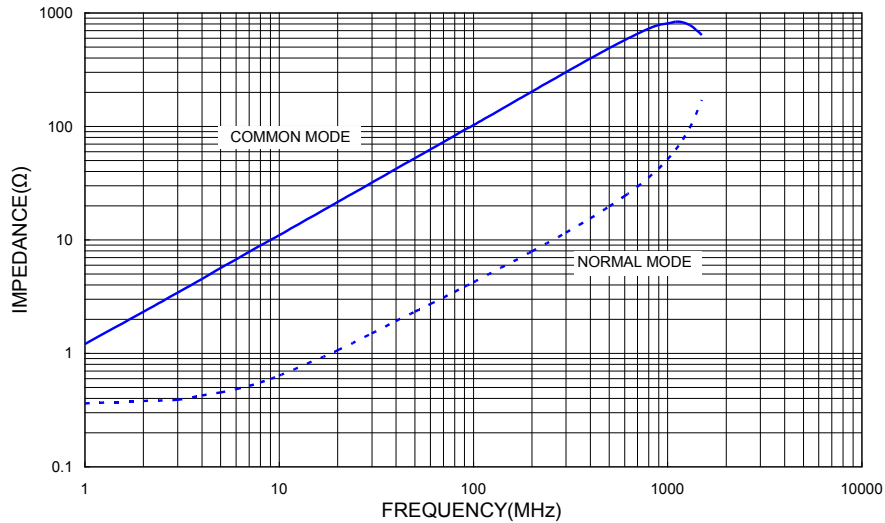
# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications

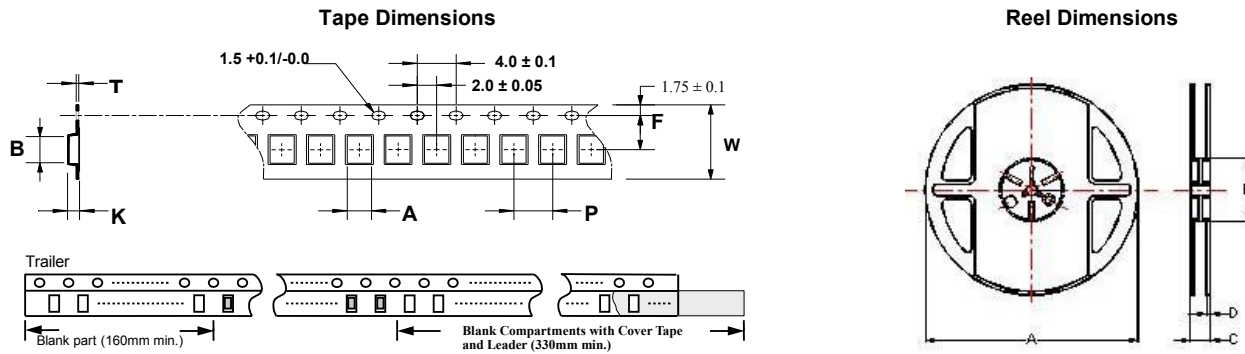
Test Instruments : HP4291A Material/Impedance Analyzer

## Typical Impedance vs. Frequency

### BWCU00231512900M02



## Packaging Specifications



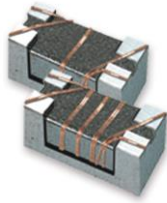
## Dimensions in mm

| TYPE         | Tape Dimensions |      |      |   |   |     |      | Reel Dimensions |    |    |     | Quantity<br>PCS / Reel |
|--------------|-----------------|------|------|---|---|-----|------|-----------------|----|----|-----|------------------------|
|              | A               | B    | T    | W | P | F   | K    | A               | B  | C  | D   |                        |
| BWCU00160811 | 0.95            | 1.70 | 0.24 | 8 | 4 | 3.5 | 1.15 | 178             | 60 | 12 | 1.5 | 2000                   |
| BWCU00121008 | 1.15            | 1.45 | 0.24 | 8 | 4 | 3.5 | 1.00 | 178             | 60 | 12 | 1.5 | 2000                   |
| BWCU00201212 | 1.50            | 2.25 | 0.24 | 8 | 4 | 3.5 | 1.35 | 178             | 60 | 12 | 1.5 | 2000                   |
| BWCU00231512 | 1.60            | 2.42 | 0.26 | 8 | 4 | 3.5 | 1.14 | 178             | 60 | 12 | 1.5 | 2000                   |
| BWCU00321619 | 1.76            | 3.47 | 0.22 | 8 | 4 | 3.5 | 2.05 | 178             | 60 | 12 | 1.5 | 2000                   |



# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications



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.

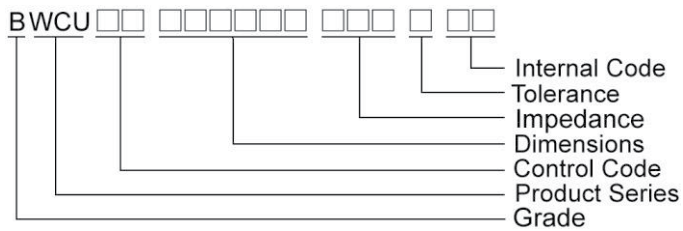
## Features

- 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.

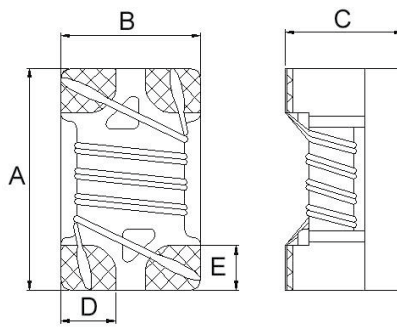
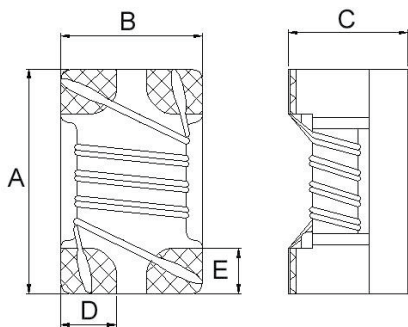
## Product Identification



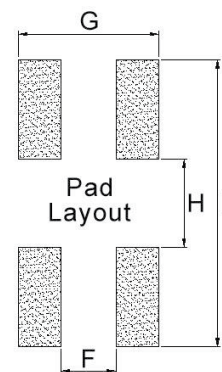
## Shape and Dimensions

BWCU00121008

BWCU00201212



## Recommended Pattern



Dimensions in mm

| TYPE         | A        | B        | C        | D    | E    | F    | G    | H    | I    |
|--------------|----------|----------|----------|------|------|------|------|------|------|
| BWCU00121008 | 1.25±0.2 | 1.00±0.2 | 0.80±0.1 | 0.32 | 0.33 | 0.36 | 1.00 | 0.59 | 1.75 |
| BWCU00201212 | 2.05±0.2 | 1.25±0.2 | 1.20±0.2 | 0.50 | 0.40 | 0.50 | 1.27 | 0.80 | 2.60 |

# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications



## Electrical Characteristics

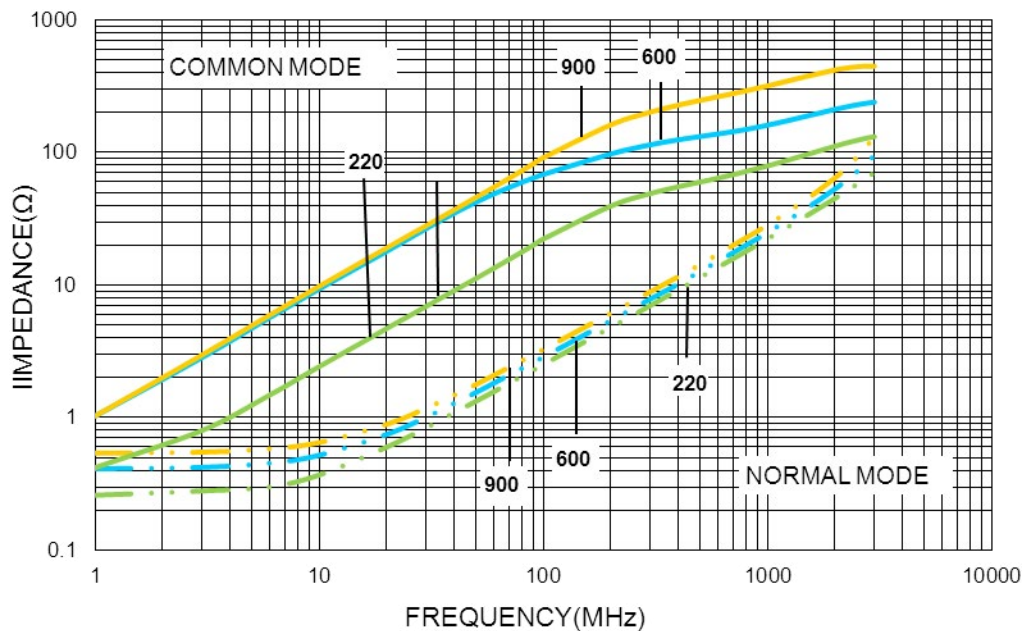
| Part Number        | Impedance (Ω) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) Max | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (MΩ) Min |
|--------------------|---------------|----------------|----------------------|-------------|--------------|---------------------|-------------------------|--------------------------------|
| BWCU00121008220Y03 | 22            | 25             | 100                  | 0.20        | 400          | 50                  | 125                     | 100                            |
| BWCU00121008600Y03 | 60            | 25             | 100                  | 0.40        | 250          | 50                  | 125                     | 100                            |
| BWCU00121008900Y03 | 90            | 25             | 100                  | 0.30        | 250          | 50                  | 125                     | 100                            |

**Note: When ordering, please specify tolerance code. Tolerance: Y=±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



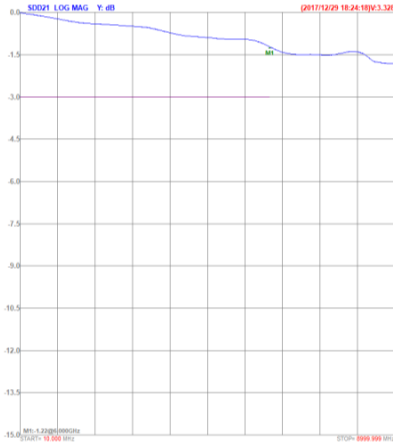
# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications

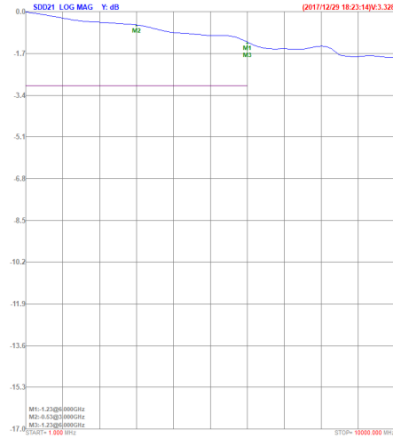


BWCU00121008220Y03

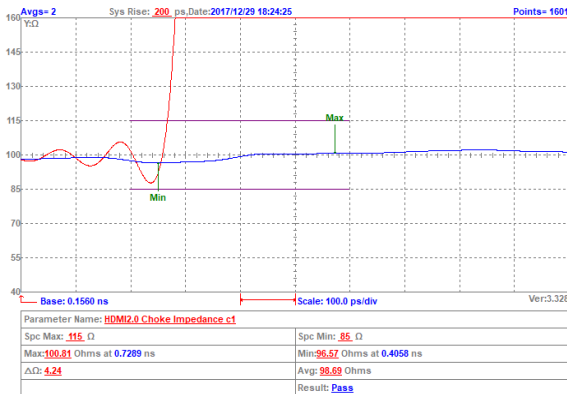
## Insertion Loss For HDMI2.0 Testing:



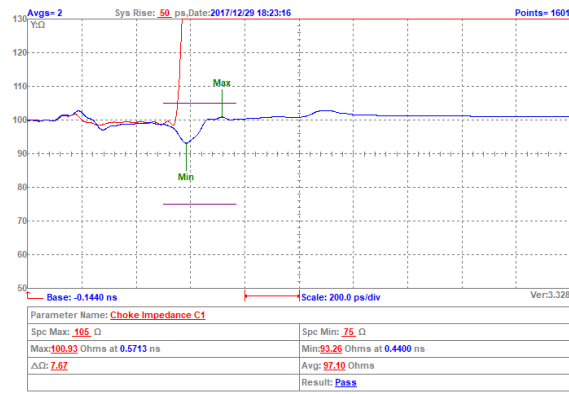
## Insertion Loss For USB3.0 Testing:



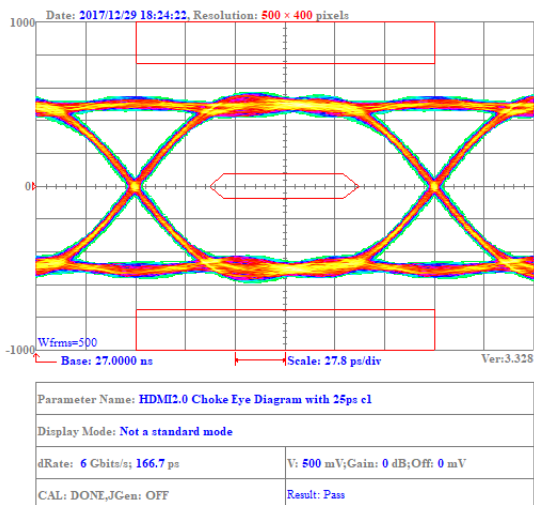
## TDR For HDMI2.0 Testing:



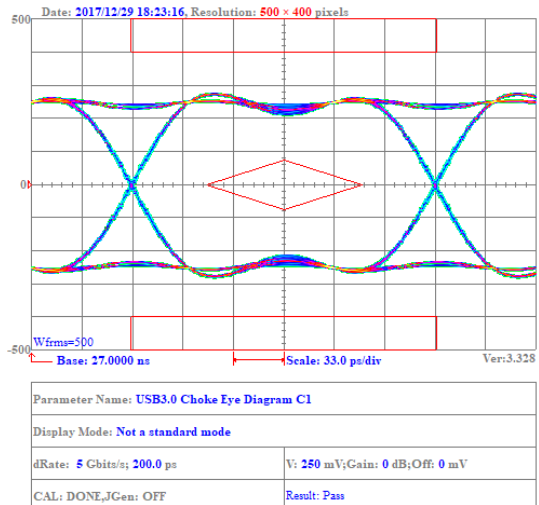
## TDR For USB3.0 Testing:



## Eye Diagram For HDMI2.0 Testing:



## Eye Diagram For USB3.0 Testing:



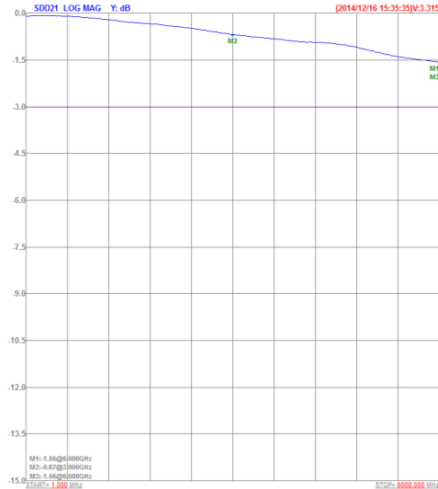
# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications

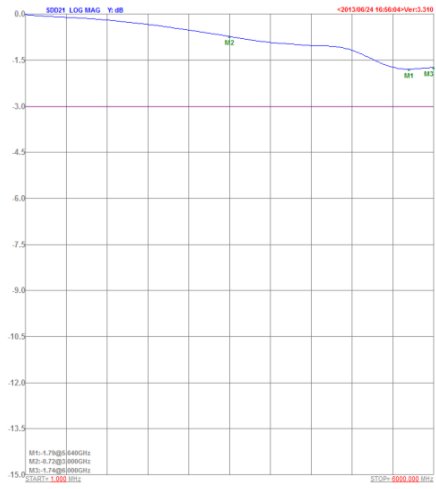


BWCU00121008600Y03

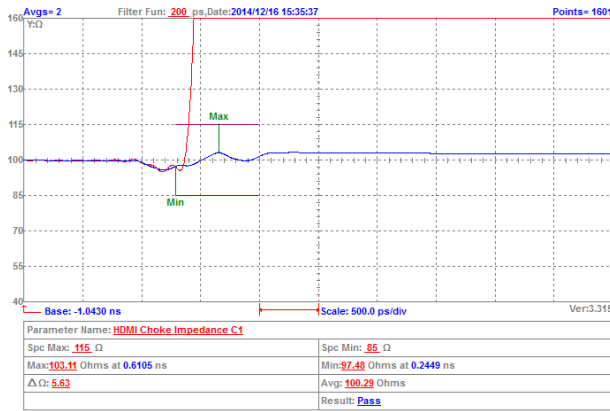
## Insertion Loss For HDMI2.0 Testing:



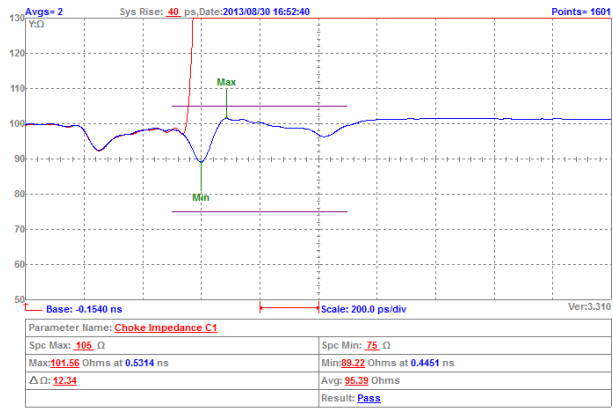
## Insertion Loss For USB3.0 Testing:



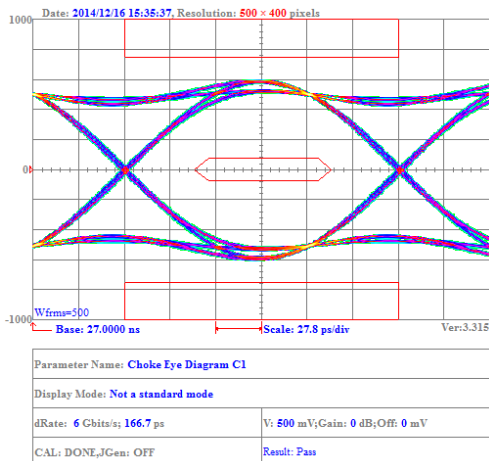
## TDR For HDMI2.0 Testing:



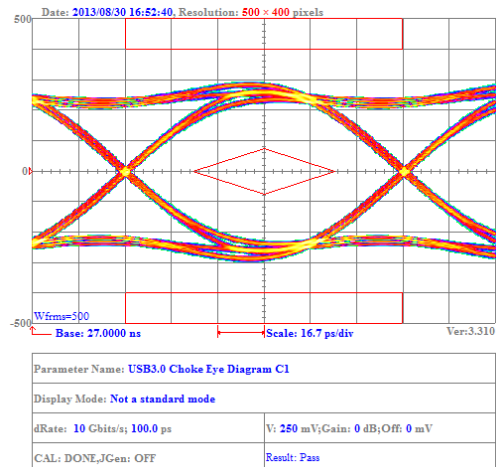
## TDR For USB3.0 Testing:



## Eye Diagram For HDMI2.0 Testing:



## Eye Diagram For USB3.0 Testing:



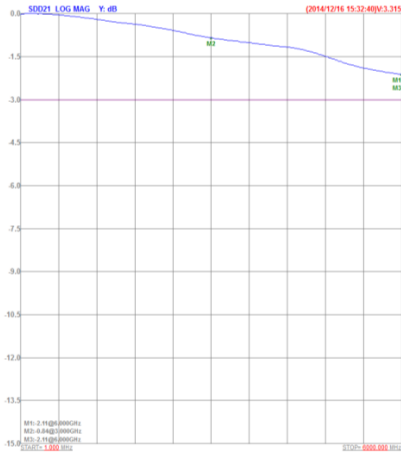
# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications

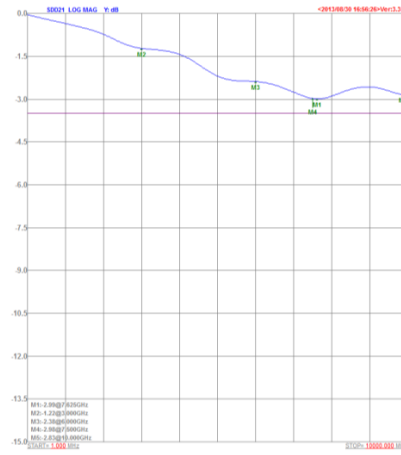


BWCU00121008900Y03

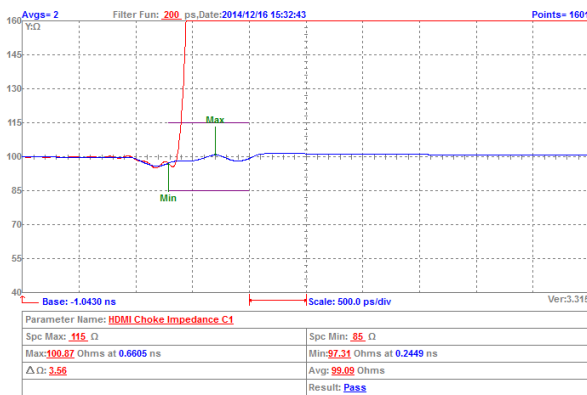
## Insertion Loss For HDMI2.0 Testing:



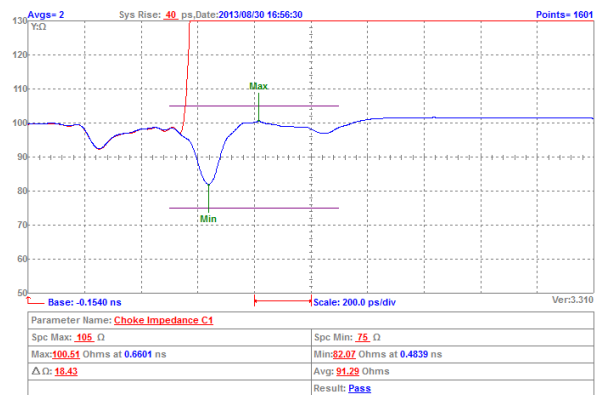
## Insertion Loss For USB3.0 Testing:



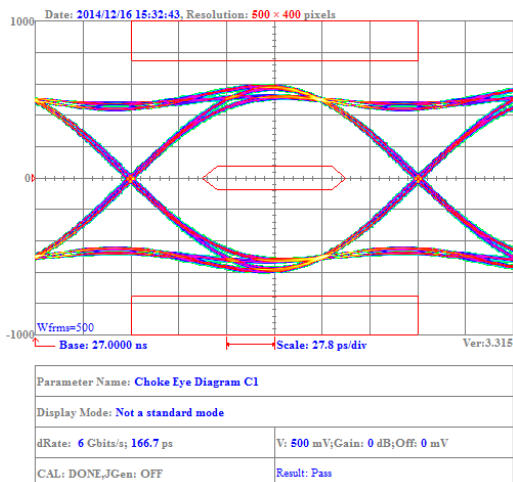
## TDR For HDMI2.0 Testing:



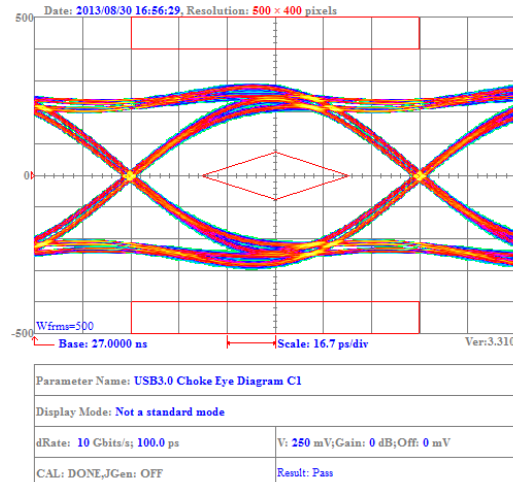
## TDR For USB3.0 Testing:



## Eye Diagram For HDMI2.0 Testing:



## Eye Diagram For USB3.0 Testing:



# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications



## Electrical Characteristics

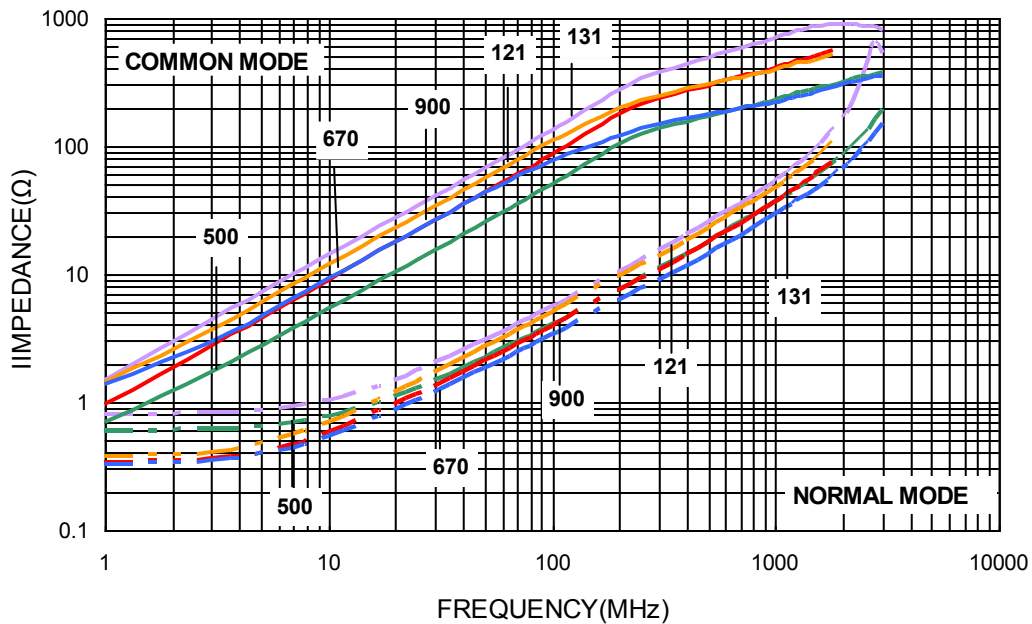
| Part Number        | Impedance (Ω) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) Max | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (MΩ) Min |
|--------------------|---------------|----------------|----------------------|-------------|--------------|---------------------|-------------------------|--------------------------------|
| BWCU00201212500Y03 | 50            | 25             | 100                  | 0.20        | 500          | 50                  | 125                     | 10                             |
| BWCU00201212670Y03 | 67            | 25             | 100                  | 0.30        | 500          | 50                  | 125                     | 10                             |
| BWCU00201212900Y03 | 90            | 25             | 100                  | 0.30        | 500          | 50                  | 125                     | 10                             |
| BWCU00201212121Y03 | 120           | 25             | 100                  | 0.35        | 330          | 50                  | 125                     | 10                             |
| BWCU00201212131Y03 | 130           | 25             | 100                  | 0.40        | 300          | 50                  | 125                     | 10                             |

**Note: When ordering, please specify tolerance code. Tolerance: Y=±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

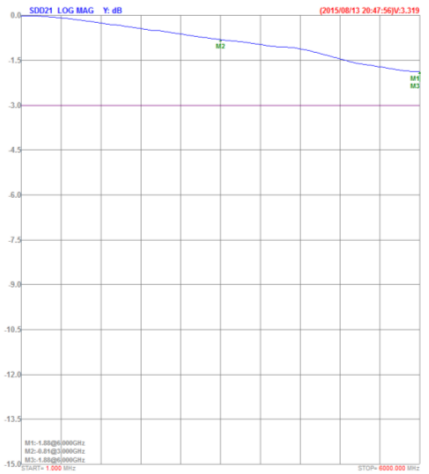
**Test Instruments :** HP4291A Material/Impedance Analyzer

### Typical Impedance vs. Frequency

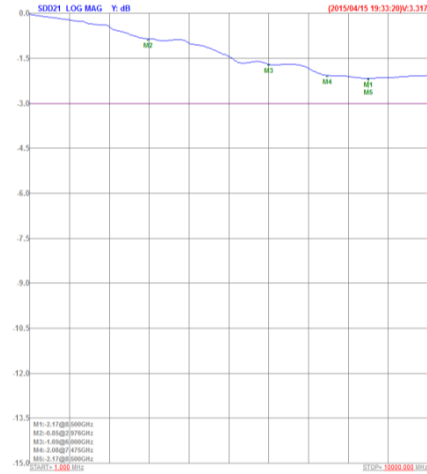


BWCU00201212500Y03

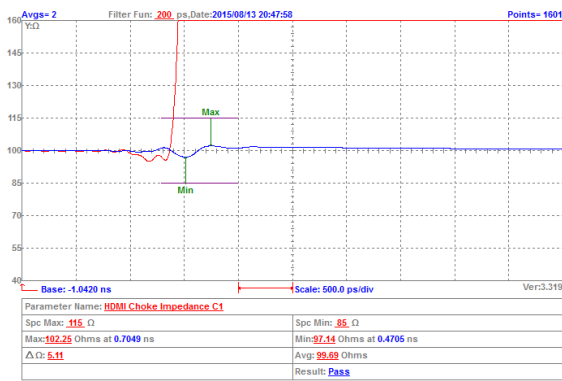
**Insertion Loss For HDMI2.0 Testing:**



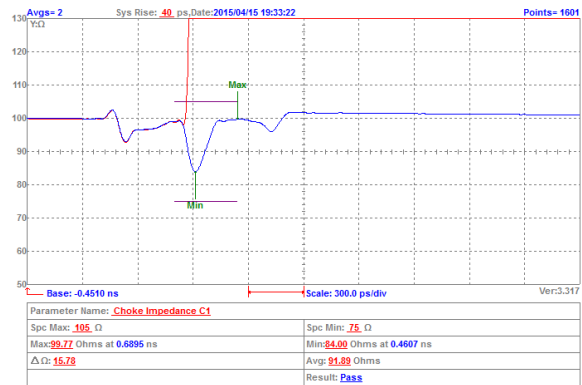
**Insertion Loss For USB3.0 Testing:**



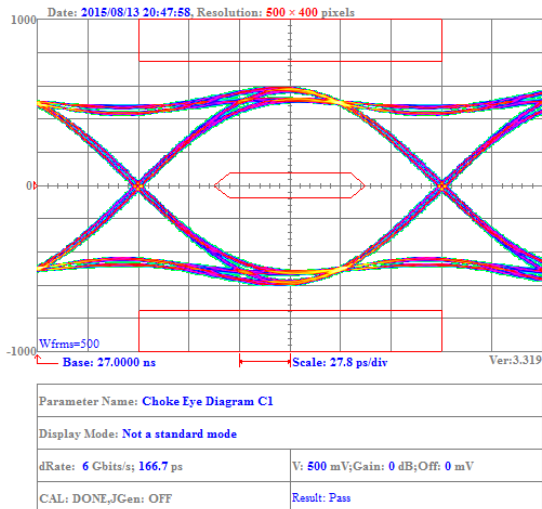
**TDR For HDMI2.0 Testing:**



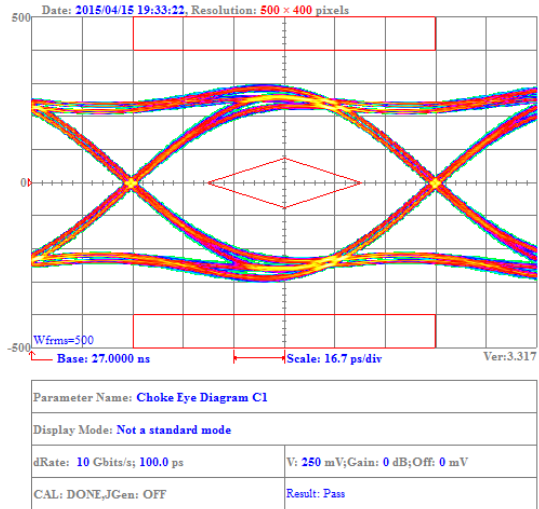
**TDR For USB3.0 Testing:**



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



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



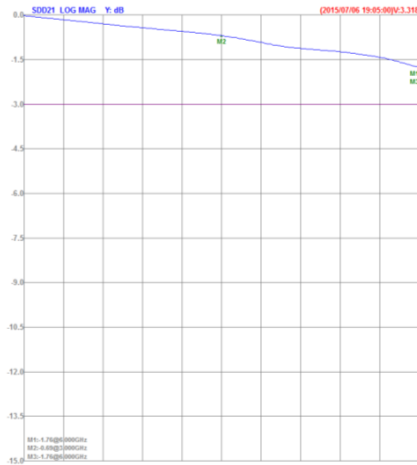
# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications

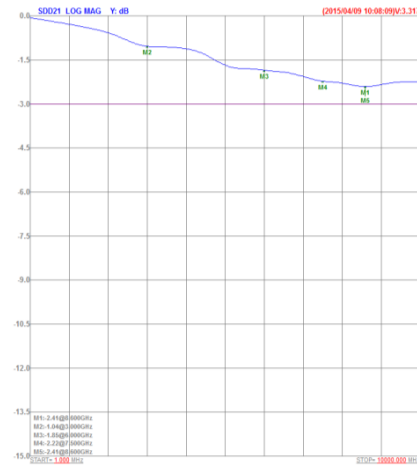


BWCU00201212670Y03

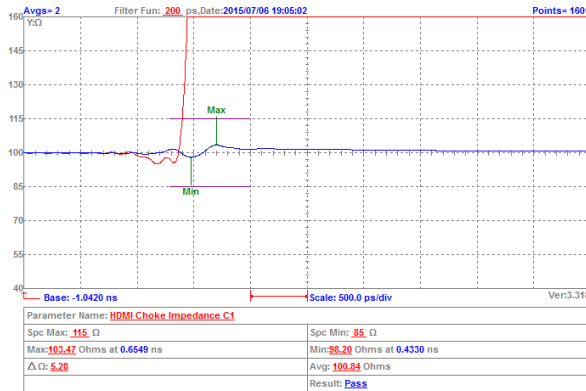
## Insertion Loss For HDMI2.0 Testing:



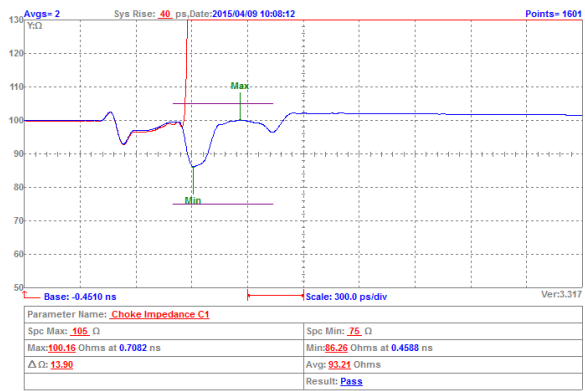
## Insertion Loss For USB3.0 Testing:



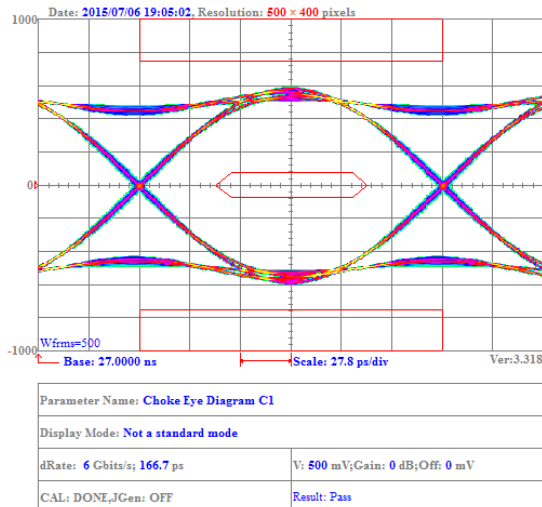
## TDR For HDMI2.0 Testing:



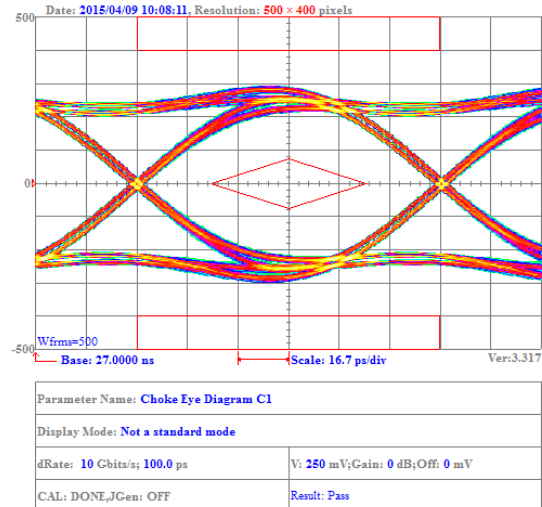
## TDR For USB3.0 Testing:



## Eye Diagram For HDMI2.0 Testing:



## Eye Diagram For USB3.0 Testing:





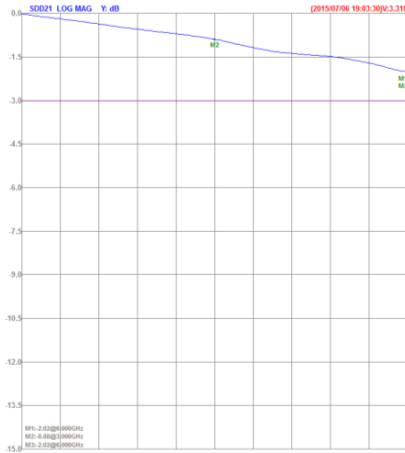
# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications

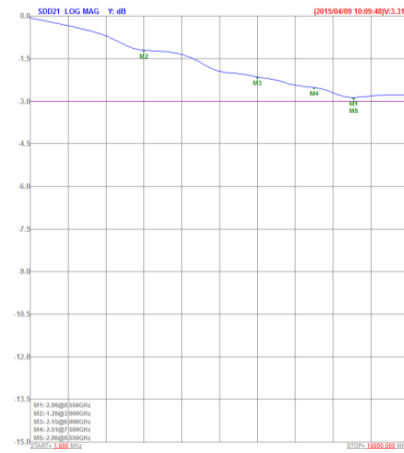
BWCU00201212900Y03



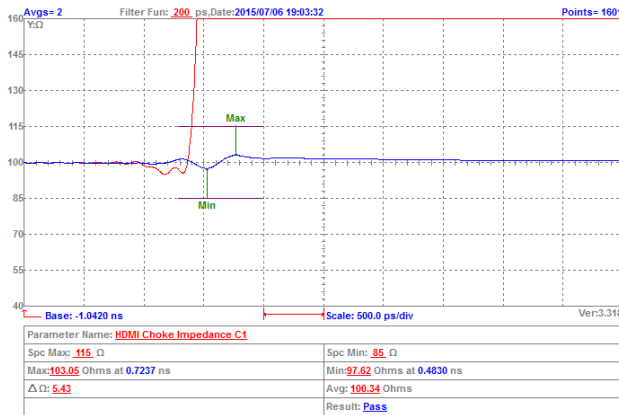
## Insertion Loss For HDMI2.0 Testing:



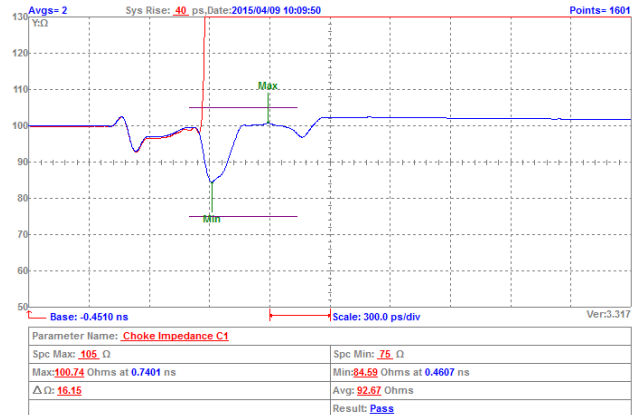
## Insertion Loss For USB3.0 Testing:



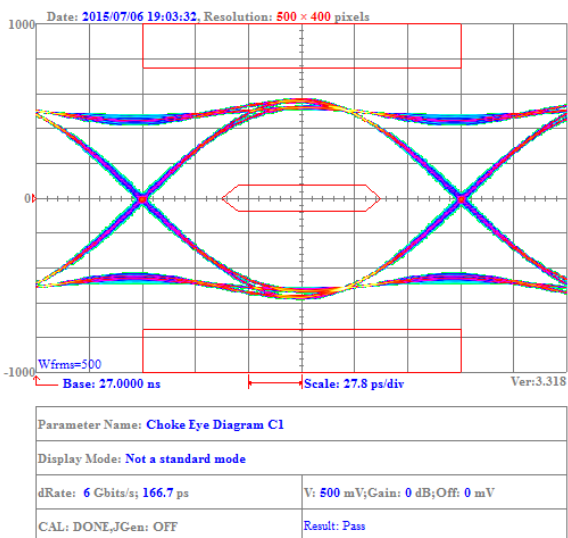
## TDR For HDMI2.0 Testing:



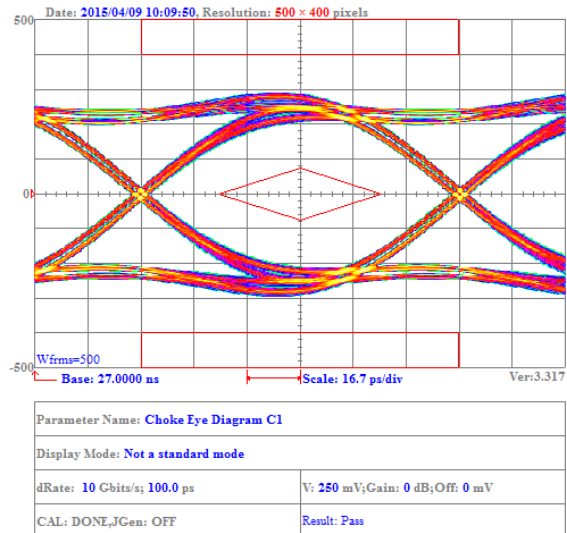
## TDR For USB3.0 Testing:



## Eye Diagram For HDMI2.0 Testing:



## Eye Diagram For USB3.0 Testing:



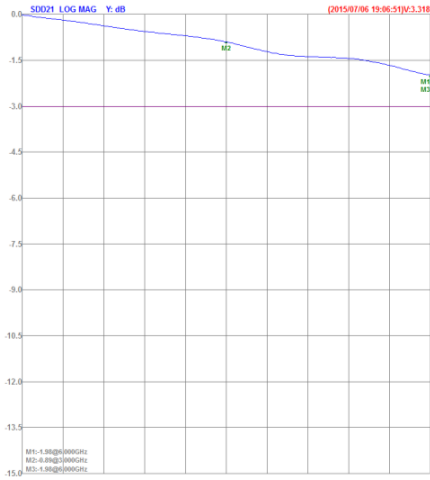
# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications

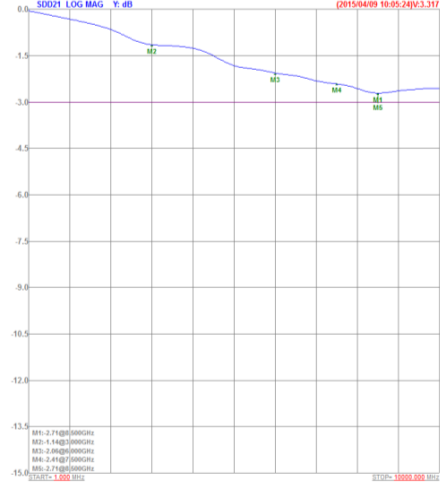


BWCU00201212121Y03

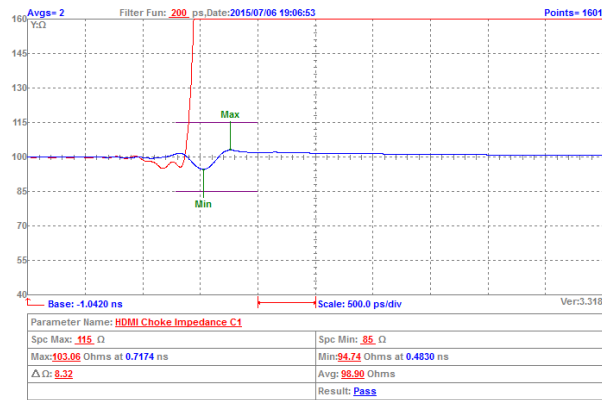
## Insertion Loss For HDMI2.0 Testing:



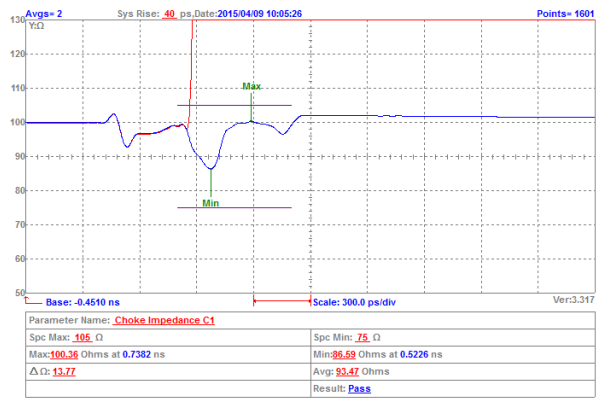
## Insertion Loss For USB3.0 Testing:



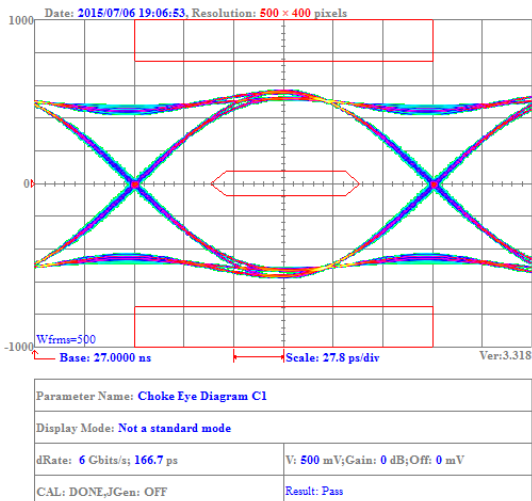
## TDR For HDMI2.0 Testing:



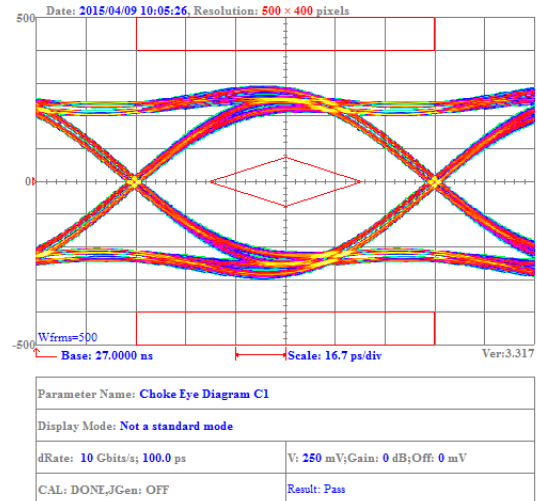
## TDR For USB3.0 Testing:



## Eye Diagram For HDMI2.0 Testing:



## Eye Diagram For USB3.0 Testing:



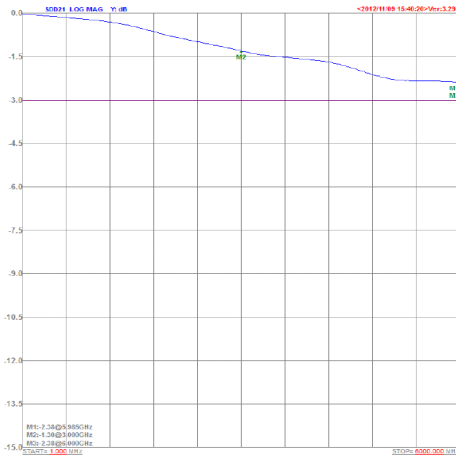
# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications

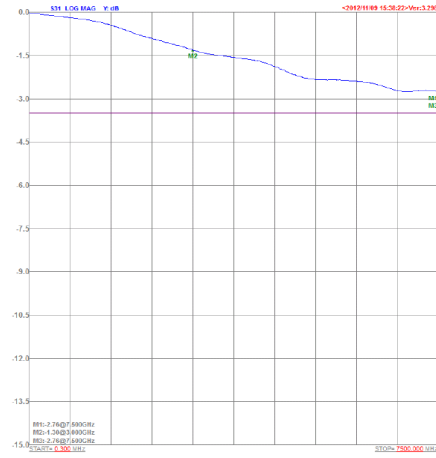
BWCU00201212131Y03



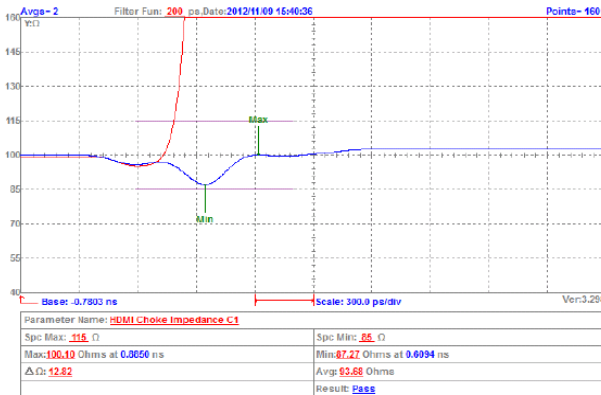
## Insertion Loss For HDMI Testing:



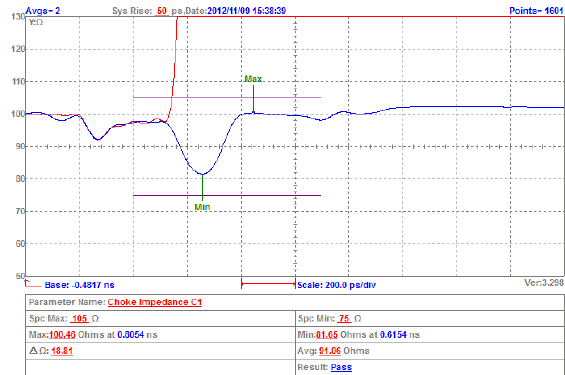
## Insertion Loss For USB3.0 Testing:



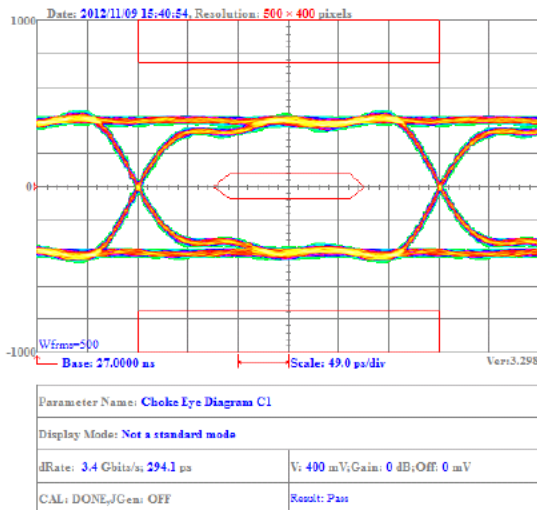
## TDR For HDMI Testing:



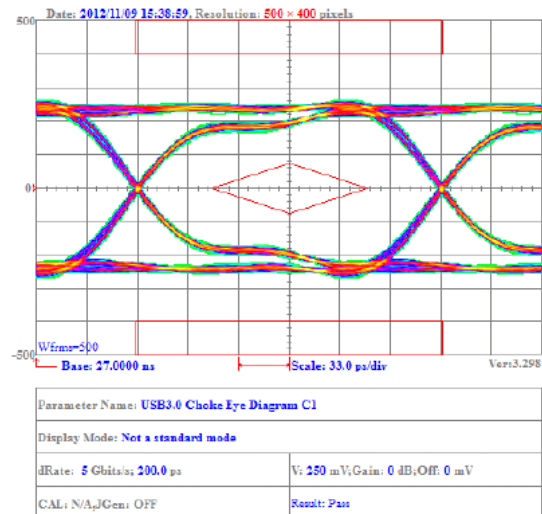
## TDR For USB3.0 Testing:



## Eye Diagram For HDMI Testing:



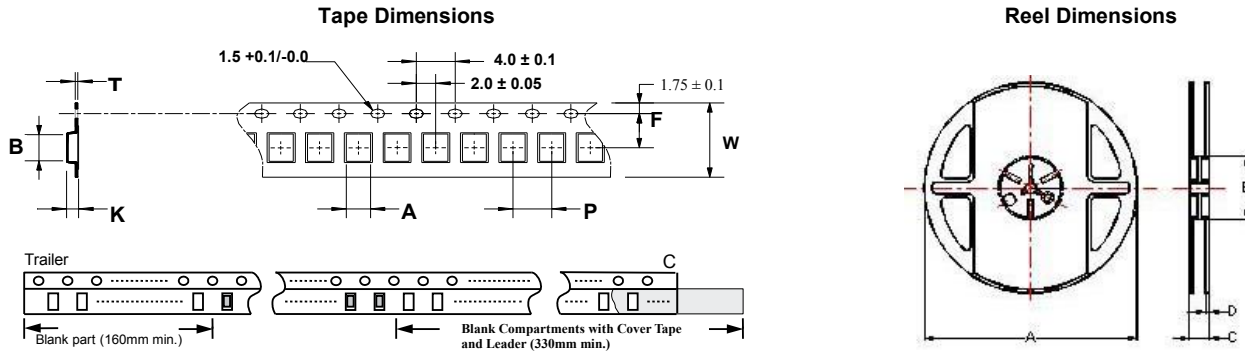
## Eye Diagram For USB3.0 Testing:



# SMD Common Mode Choke

BWCU\_02 Series For USB 2.0, IE EE1394b, LVDS Applications

## Packaging Specifications



### Dimensions in mm

| TYPE         | Tape Dimensions |      |      |   |   |     |      | Reel Dimensions |    |    |     | Quantity<br>PCS / Reel |
|--------------|-----------------|------|------|---|---|-----|------|-----------------|----|----|-----|------------------------|
|              | A               | B    | T    | W | P | F   | K    | A               | B  | C  | D   |                        |
| BWCU00121008 | 1.15            | 1.45 | 0.25 | 8 | 4 | 3.5 | 1.00 | 178             | 60 | 12 | 1.5 | 2000                   |
| BWCU00201212 | 1.50            | 2.25 | 0.24 | 8 | 4 | 3.5 | 1.35 | 178             | 60 | 12 | 1.5 | 2000                   |

### For More Information:

Americas - [prodinfo\\_power\\_americas@yageo.com](mailto:prodinfo_power_americas@yageo.com) | Europe - [prodinfo\\_power\\_emea@yageo.com](mailto:prodinfo_power_emea@yageo.com) | Asia - [prodinfo\\_power\\_asia@yageo.com](mailto:prodinfo_power_asia@yageo.com)

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2022. Pulse Electronics, Inc. All rights reserved.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Common Mode Chokes / Filters](#) category:*

*Click to view products by [Chilisin](#) manufacturer:*

Other Similar products are found below :

[PE-64683](#) [ST6118T-R](#) [FE3X025-10-7NL](#) [T8114NLT](#) [TCM0806G-350-2P-T](#) [TCM0806G-650-2P-T](#) [IND-0110](#) [UAL21VR0802000](#)  
[UALSC023000000](#) [UALSC1020JH000](#) [UALSU10VD20010](#) [UALSU9VD070100](#) [36-00037](#) [CM7060M132R-10](#) [UALW21HS072450](#)  
[UALSU9H0208000](#) [UAL24VK06450CH](#) [PLT10HH501100PNB](#) [PLT10HH401100PNB](#) [PLT10HH1026R0PNB](#) [36-00029-01](#) [PE-67531](#)  
[TLH10UB](#) [113 0R5](#) [2752045447](#) [CM8663Z161B-10](#) [7351V](#) [CMF16-153131](#) [T8116NLT](#) [CMS2-10-R](#) [FE2X10-4-2NL](#) [T8003NLT](#) [CTX01-](#)  
[13663](#) [CTX66-19521-R](#) [RC212-0.5-10M](#) [RC112-0.4-15M](#) [RC212-0.6-6M8](#) [RC212-0.4-15M](#) [RC112-0.3-30M](#) [4534-3](#)  
[WTCF2012Z0M751PB](#) [PH9408.814NLT](#) [B82498B3221J000](#) [PAC6006.364NLT](#) [PAC6006.444NLT](#) [PAC6006.204NLT](#) [PH9407.204NLT](#)  
[PAC6006.264NLT](#) [PH9408.105NLT](#) [PH9408.494NLT](#) [PAC6006.104NLT](#)