



**THE DATASHEET OF
BWCU00201212301M02**



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.

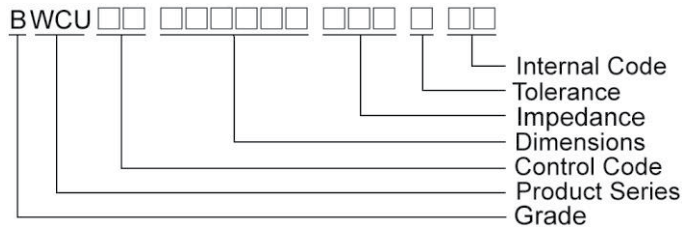
Features

- 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.

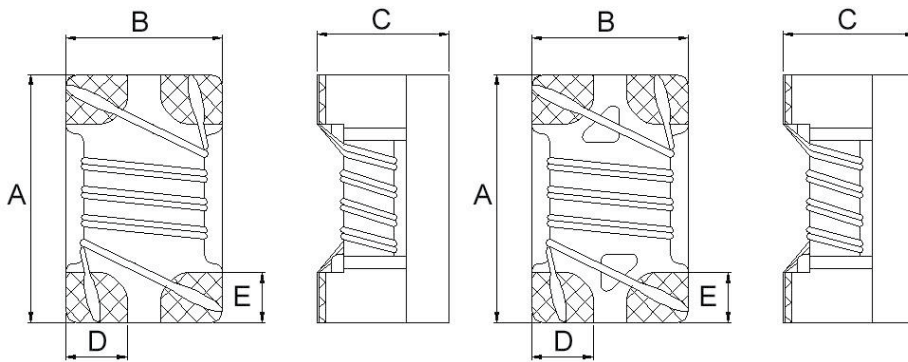
Product Identification



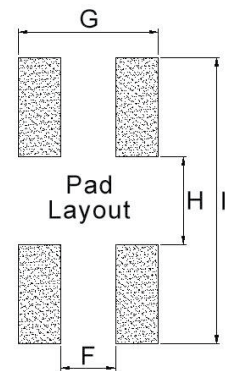
Shape and Dimensions

BWCU00160811/ 121008/ 321619

BWCU00201212



Recommended Pattern



Dimensions in mm

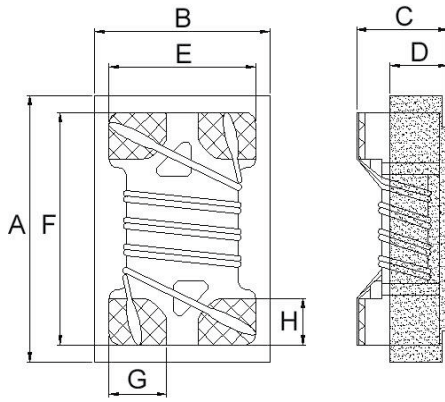
| TYPE | A | B | C | D | E | F | G | H | I |
|--------------|----------|----------|----------|------|------|------|------|------|------|
| BWCU00160811 | 1.60±0.2 | 0.80±0.2 | 1.10±0.2 | 0.25 | 0.33 | 0.25 | 0.75 | 0.61 | 2.29 |
| BWCU00121008 | 1.25±0.2 | 1.00±0.2 | 0.8±0.1 | 0.32 | 0.33 | 0.36 | 1.00 | 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

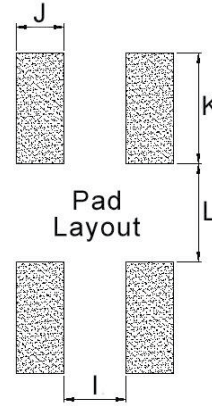
BWCU_02 Series For USB 2.0, IE EE1394b, LVDS Applications

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 ⁺⁰ | 1.52 ⁺⁰ | 1.20 ⁺⁰ | 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

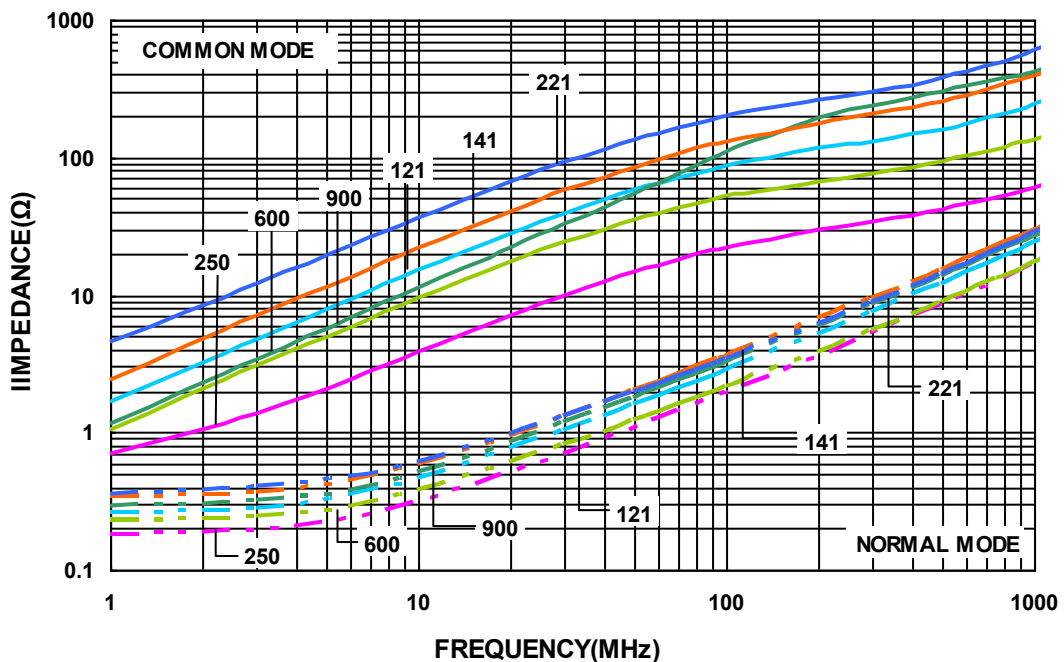
| Part Number | Impedance (Ω) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) Max | I _{rms} (mA) Max | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (MΩ) Min |
|--------------------|---------------|----------------|----------------------|-------------|---------------------------|---------------------|-------------------------|--------------------------------|
| 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_{rms} : 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

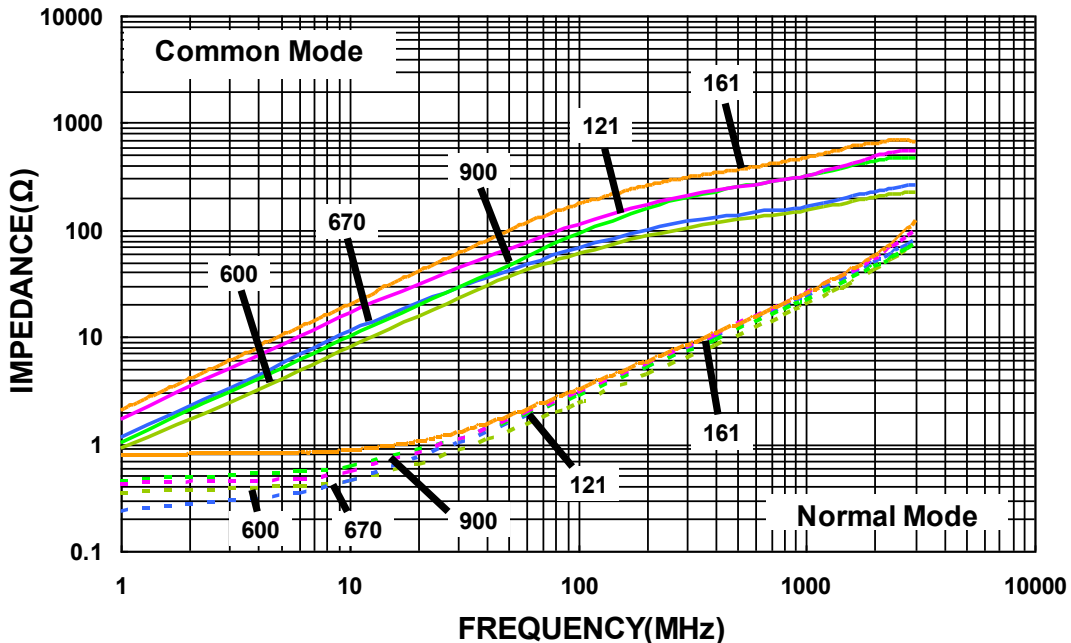
| Part Number | Impedance (Ω) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (MΩ) Min |
|--------------------|---------------|----------------|----------------------|-------------|----------|---------------------|-------------------------|--------------------------------|
| 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 (Ω) | Tolerance ($\pm\%$) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (M Ω) 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)
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- Measure Equipment :
 - Z : Agilent HP4287A+Agilent 16197A
 - RDC : Chroma 16502 (Single Wire Test Value)
 - IDC : HP4284A+HP42841A/HP4285A+HP42841A
 - Insulation Resistance : Agilent HP4339B

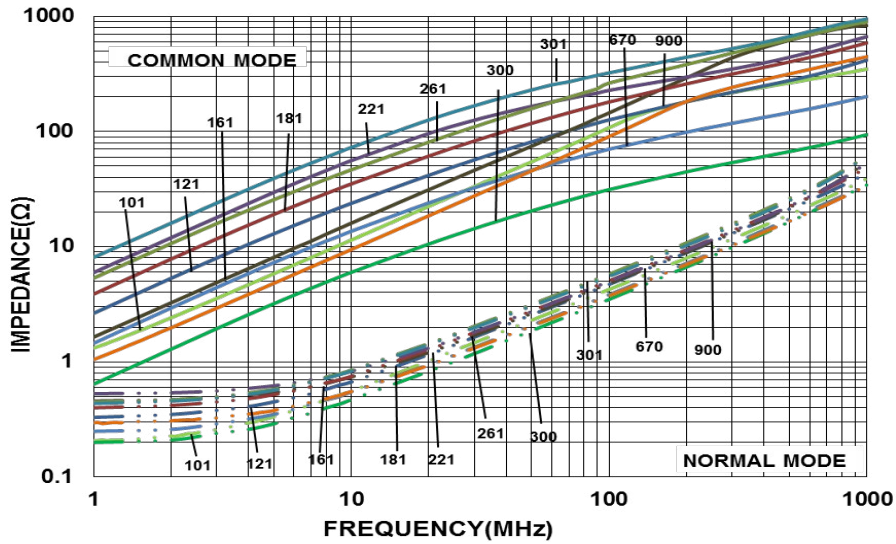
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Test Instruments : HP4291A Material/Impedance Analyzer

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

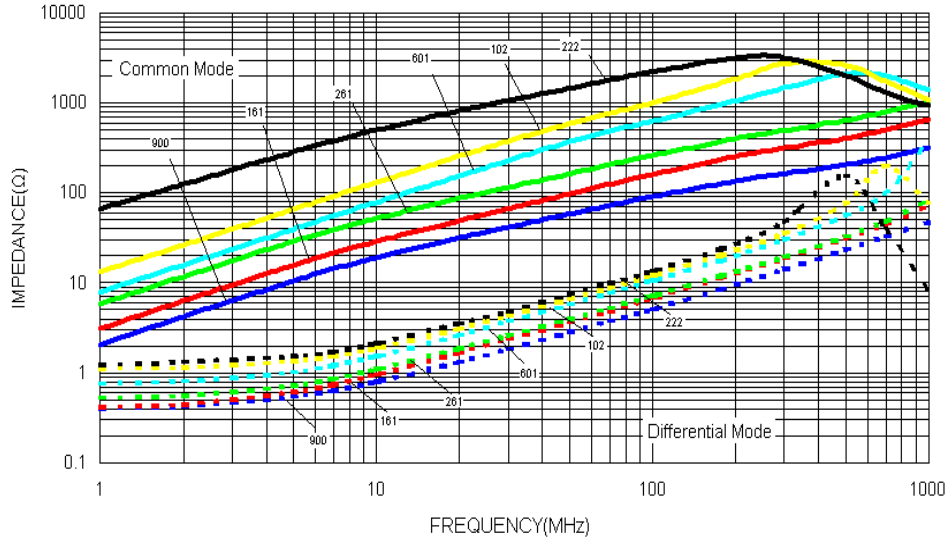
SMD Common Mode Choke

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

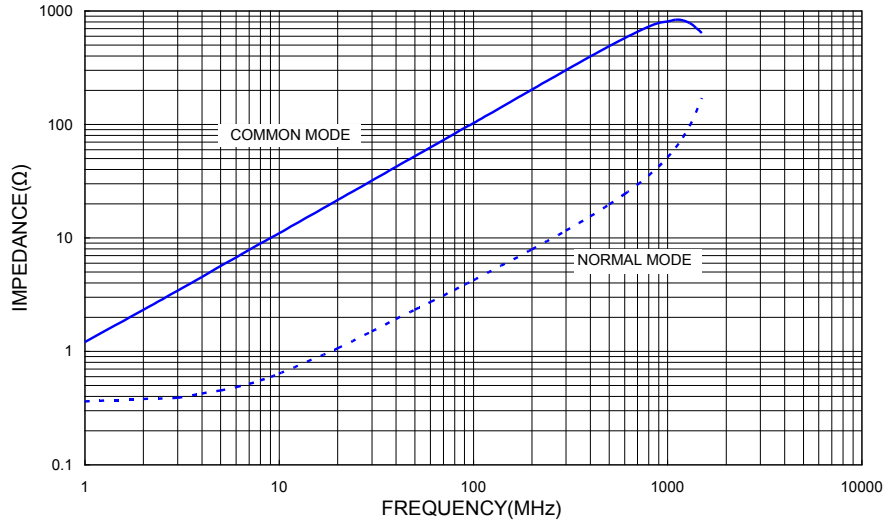
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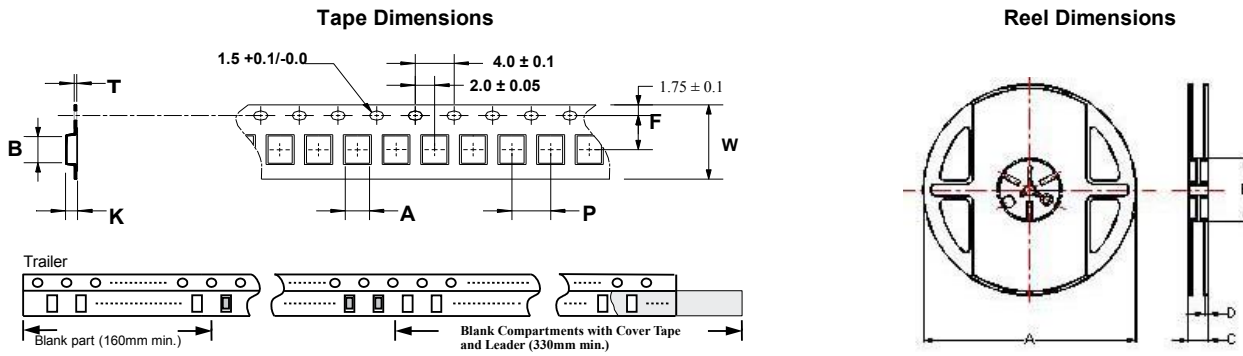
Test Instruments : HP4291A Material/Impedance Analyzer

Typical Impedance vs. Frequency

BWCU00231512900M02



Packaging Specifications

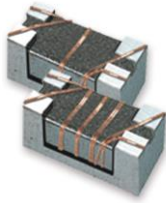


Dimensions in mm

| TYPE | Tape Dimensions | | | | | | | Reel Dimensions | | | | Quantity 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 |

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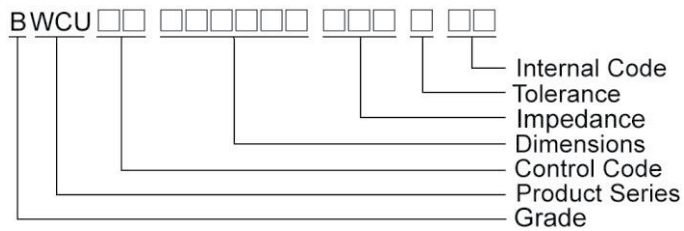
Features

- 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.

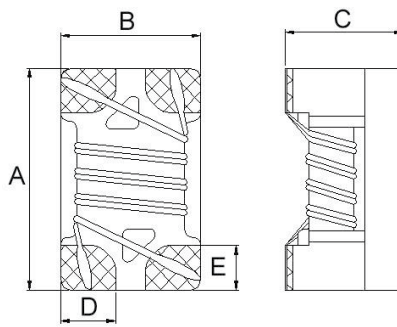
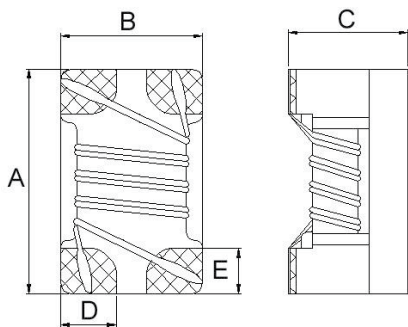
Product Identification



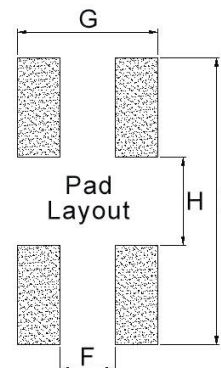
Shape and Dimensions

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

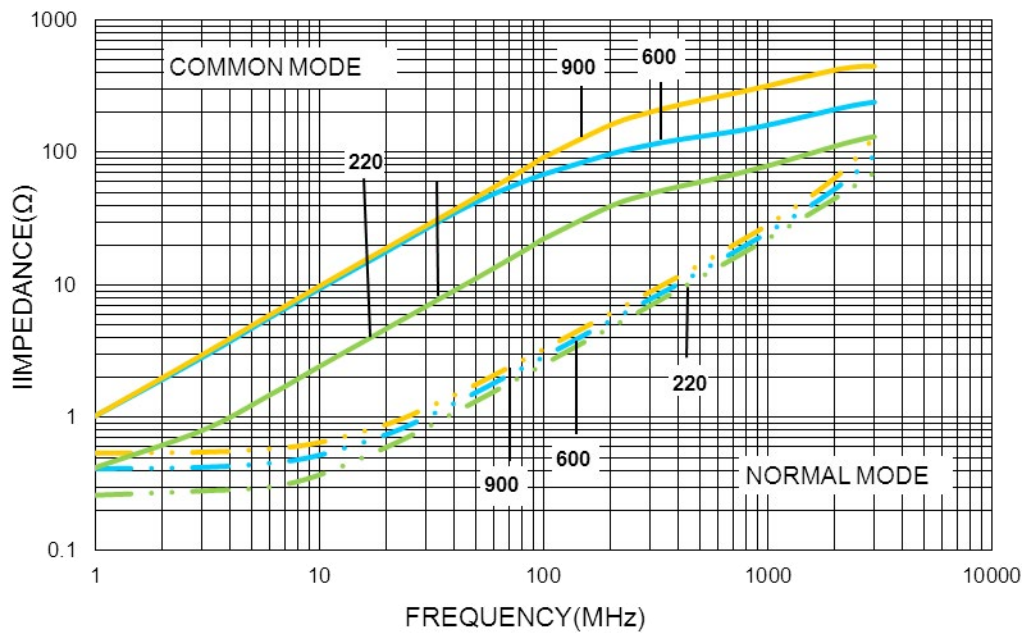
| Part Number | Impedance (Ω) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) Max | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (MΩ) Min |
|--------------------|---------------|----------------|----------------------|-------------|--------------|---------------------|-------------------------|--------------------------------|
| 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



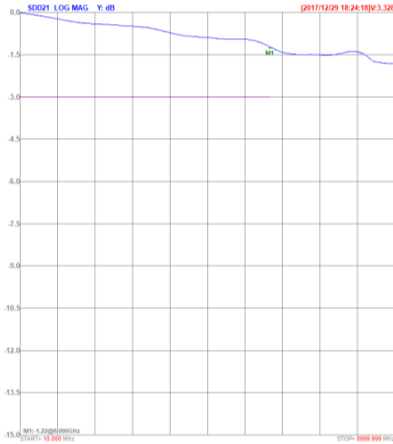
SMD Common Mode Choke

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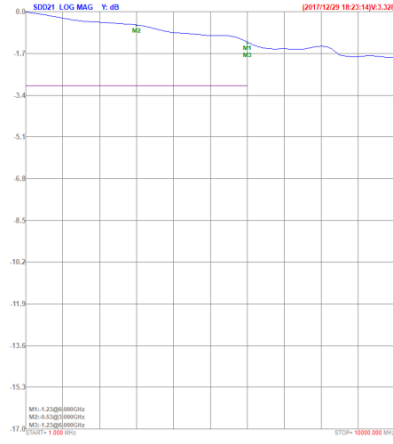


BWCU00121008220Y03

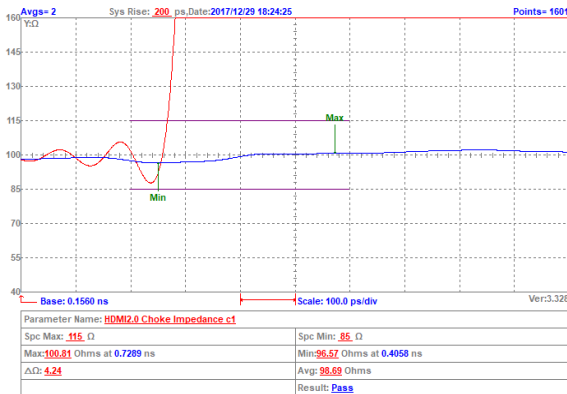
Insertion Loss For HDMI2.0 Testing:



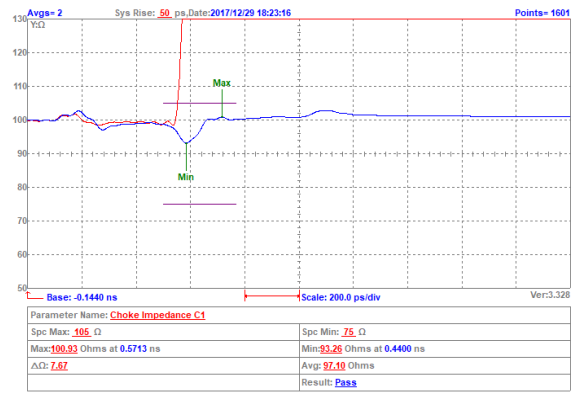
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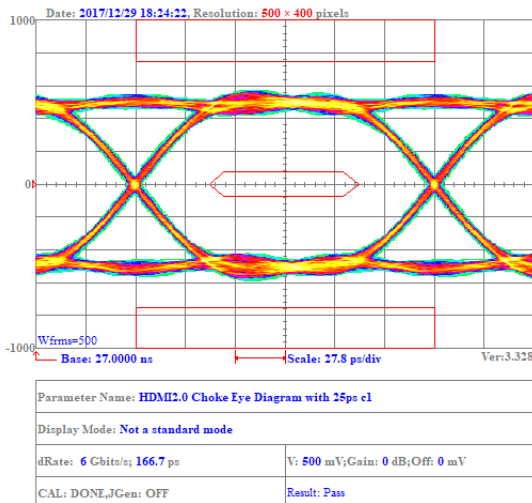
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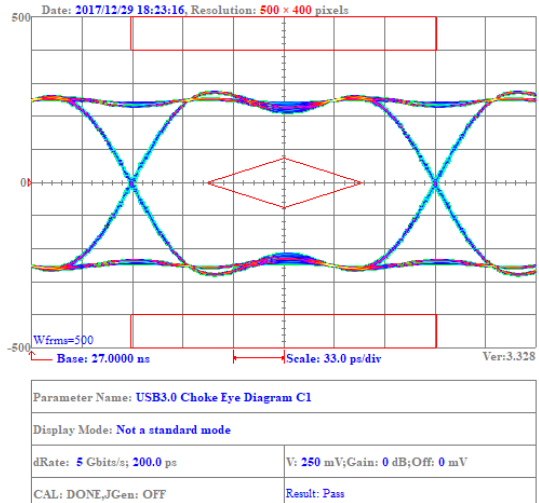
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



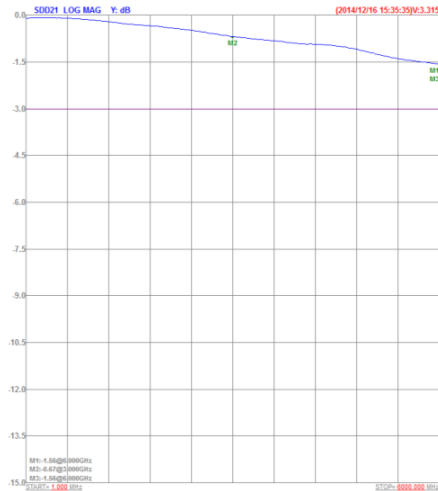
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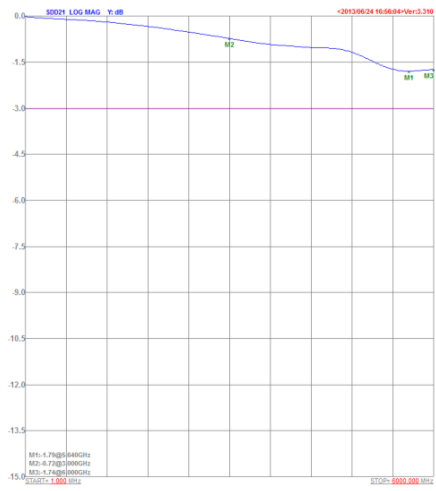


BWCU00121008600Y03

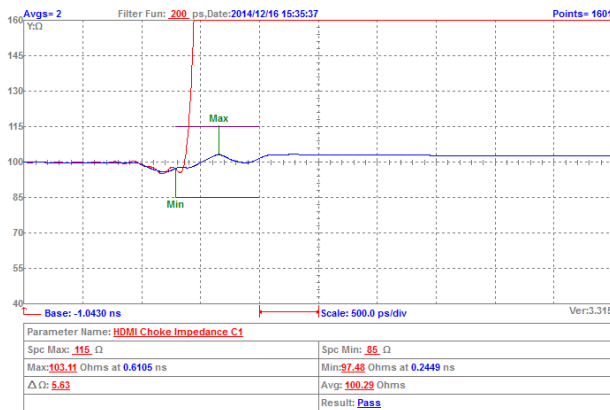
Insertion Loss For HDMI2.0 Testing:



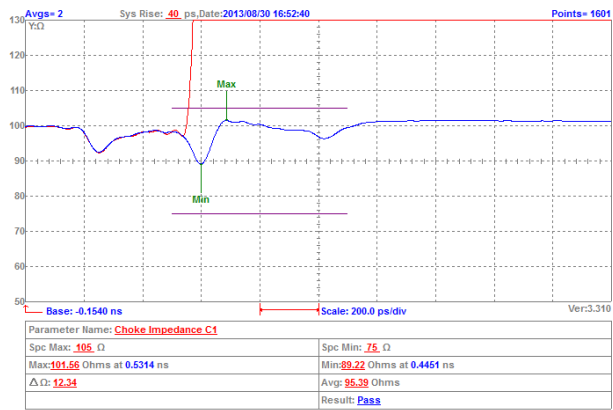
Insertion Loss For USB3.0 Testing:



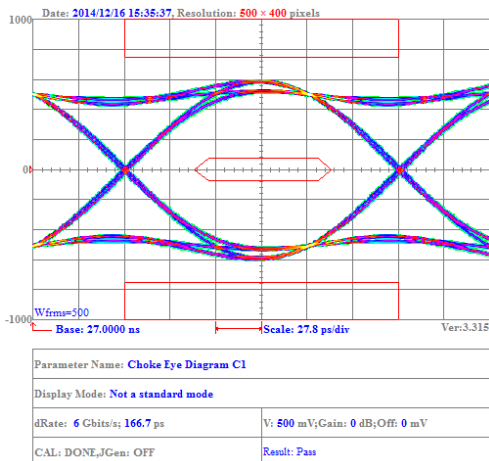
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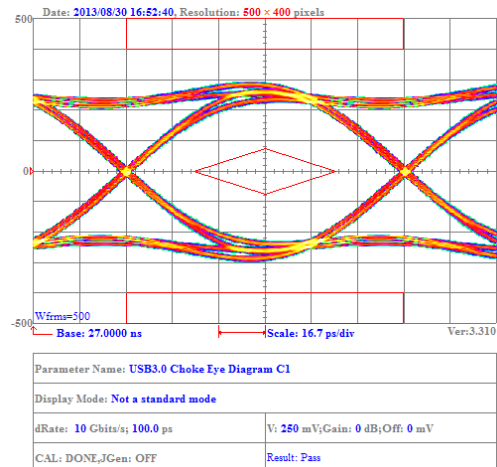
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



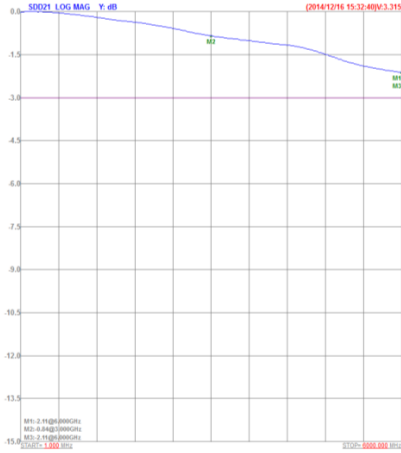
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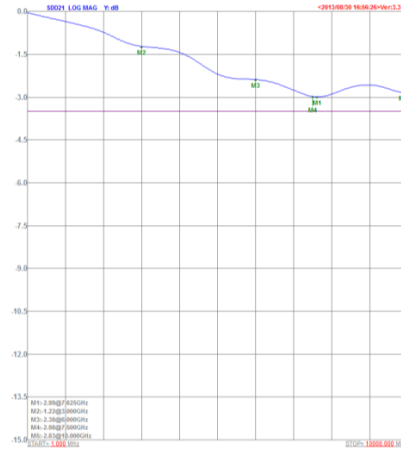


BWCU00121008900Y03

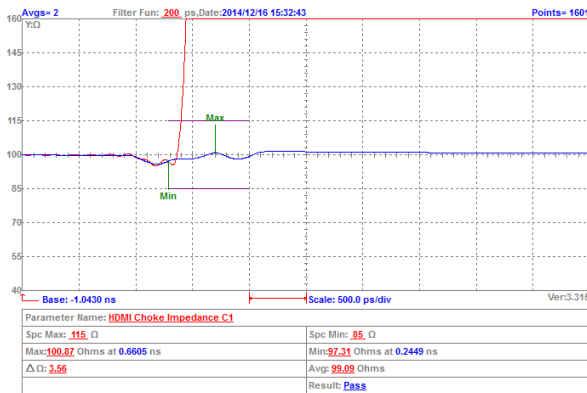
Insertion Loss For HDMI2.0 Testing:



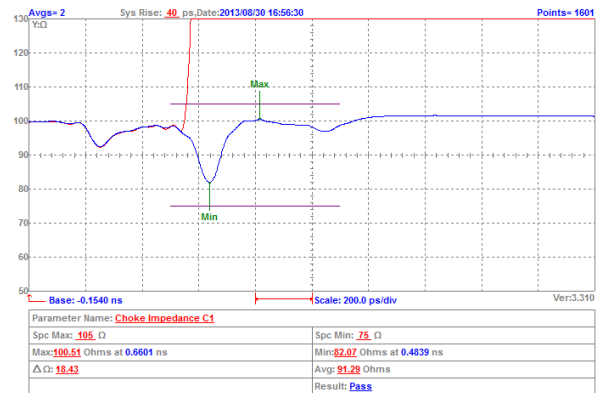
Insertion Loss For USB3.0 Testing:



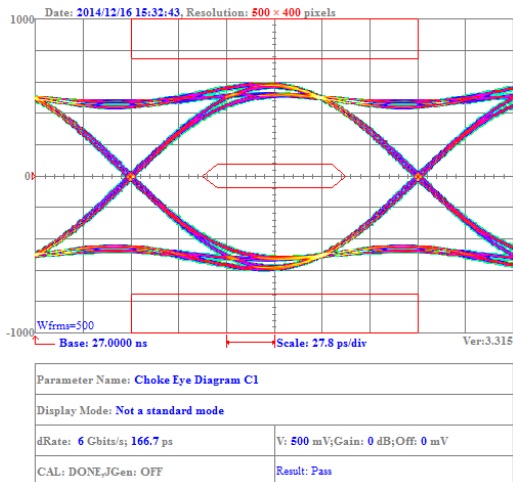
TDR For HDMI2.0 Testing:



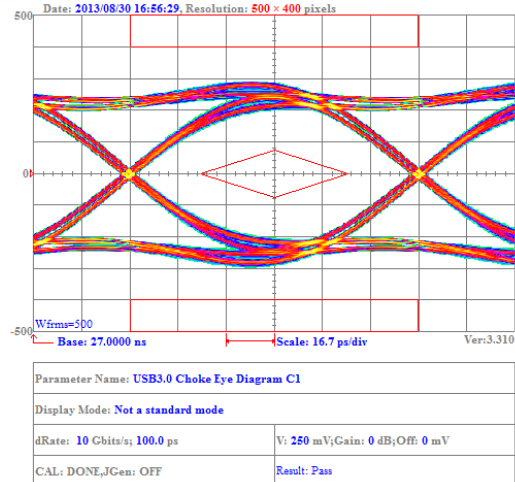
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



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Electrical Characteristics

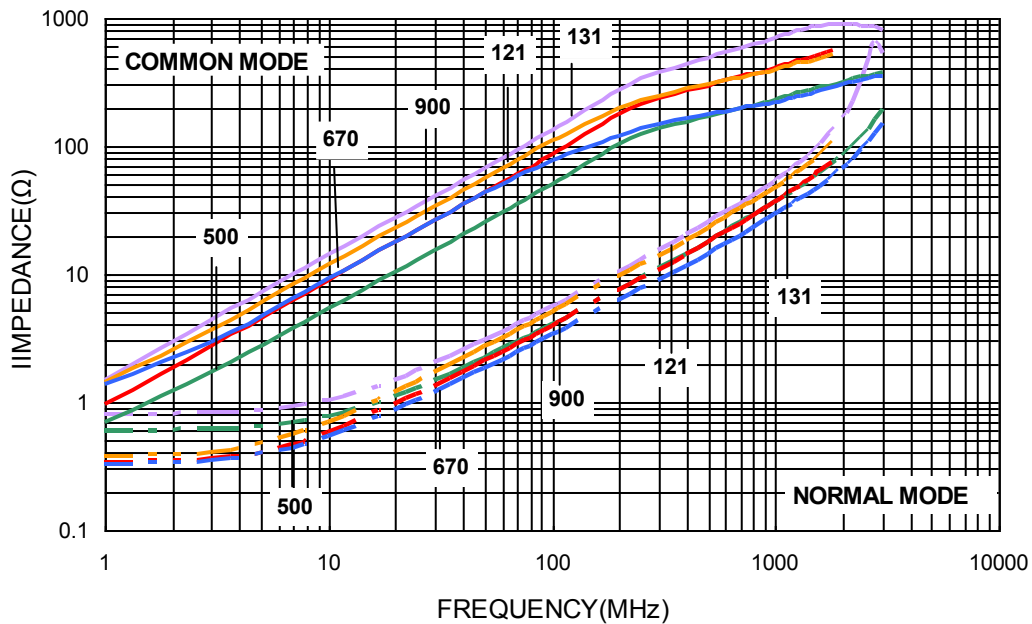
| Part Number | Impedance (Ω) | Tolerance (±%) | Test Frequency (MHz) | RDC (Ω) Max | IDC (mA) Max | Rated Voltage (Vdc) | Withstand Voltage (Vdc) | Insulation Resistance (MΩ) Min |
|--------------------|---------------|----------------|----------------------|-------------|--------------|---------------------|-------------------------|--------------------------------|
| 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



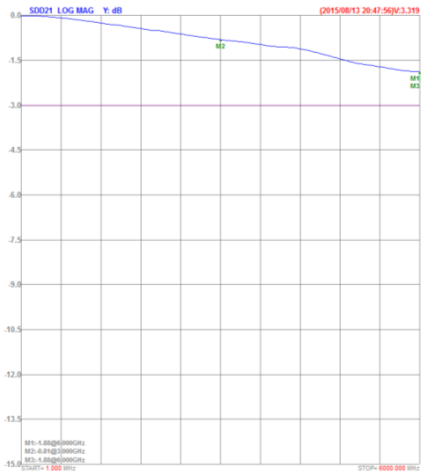
SMD Common Mode Choke

BWCU_02 Series For USB 2.0, IE EE1394b, LVDS Applications

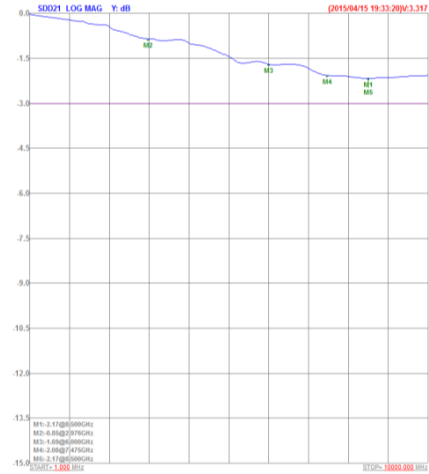


BWCU00201212500Y03

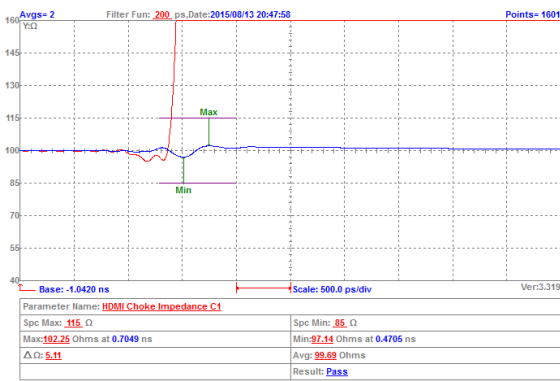
Insertion Loss For HDMI2.0 Testing:



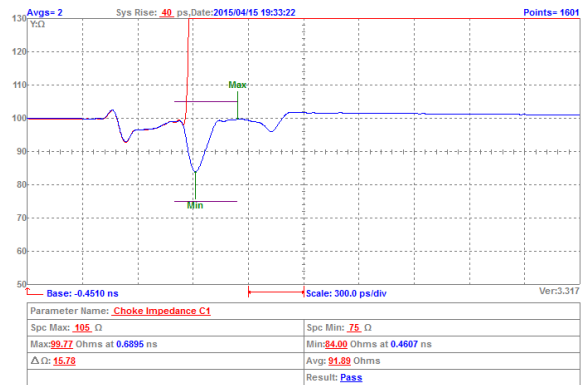
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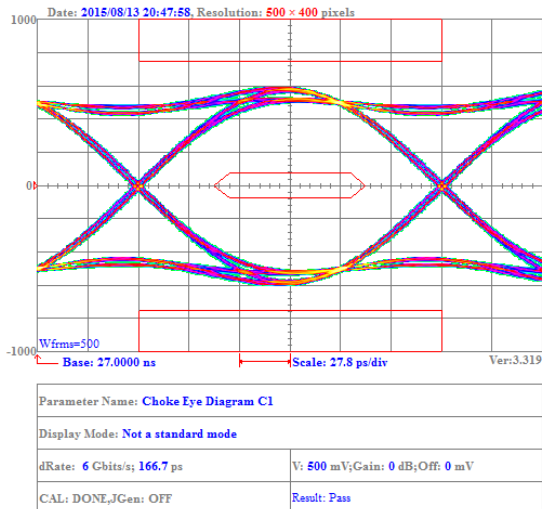
TDR For HDMI2.0 Testing:



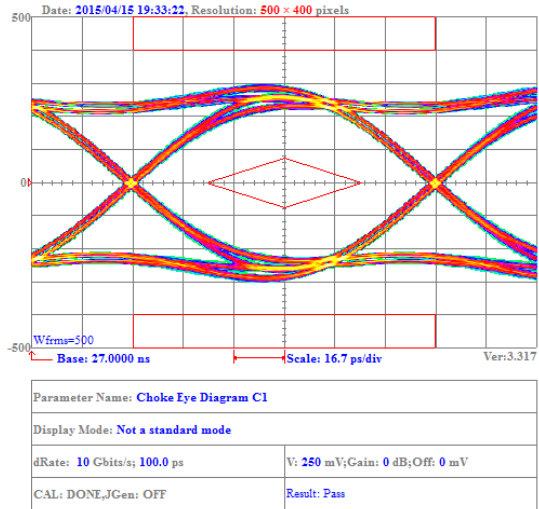
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



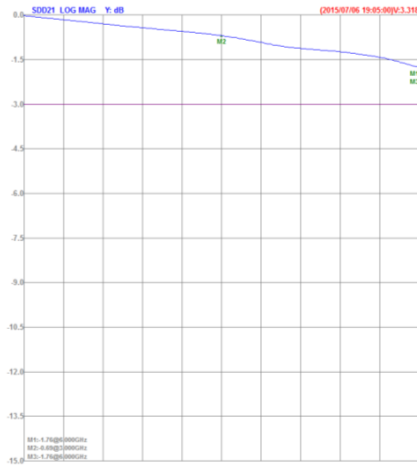
SMD Common Mode Choke

BWCU_02 Series For USB 2.0, IE EE1394b, LVDS Applications

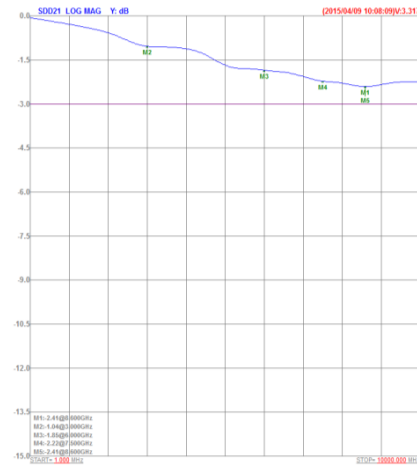


BWCU00201212670Y03

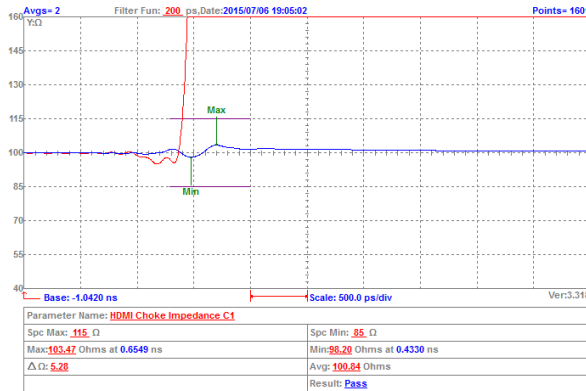
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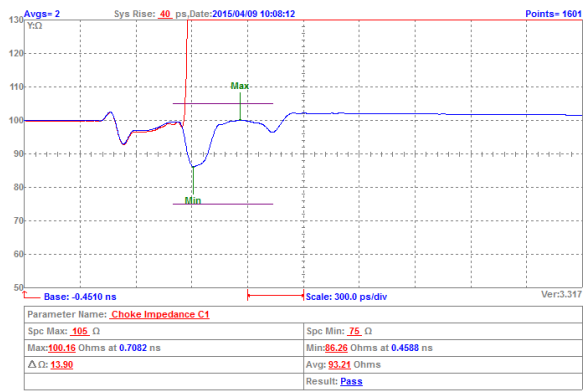
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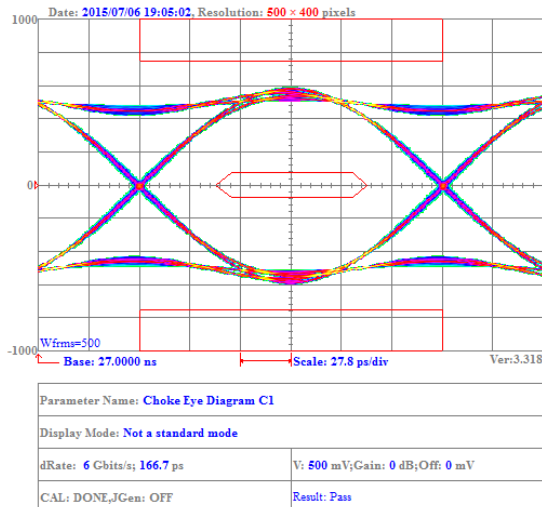
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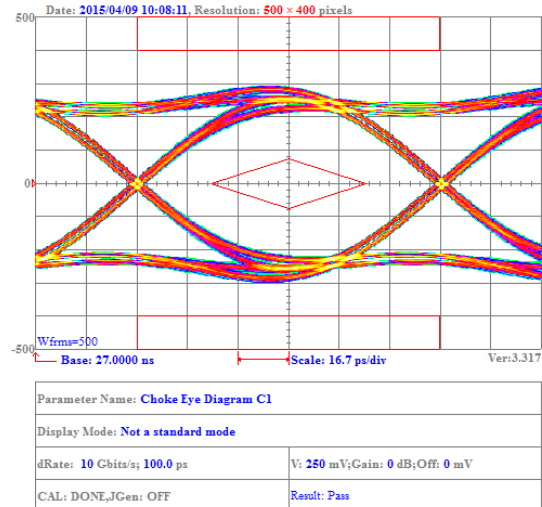
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



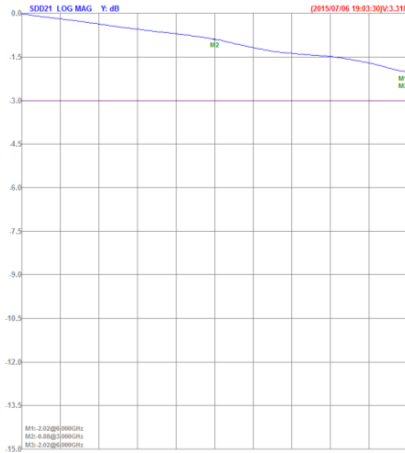
SMD Common Mode Choke

BWCU_02 Series For USB 2.0, IE EE1394b, LVDS Applications

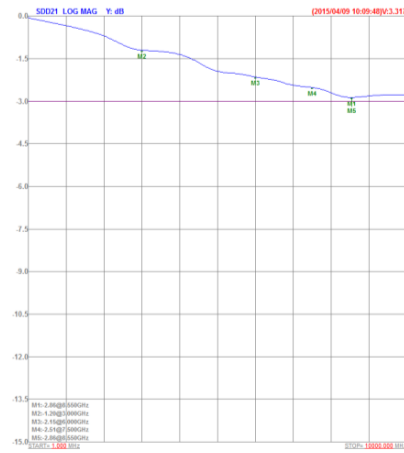
BWCU00201212900Y03



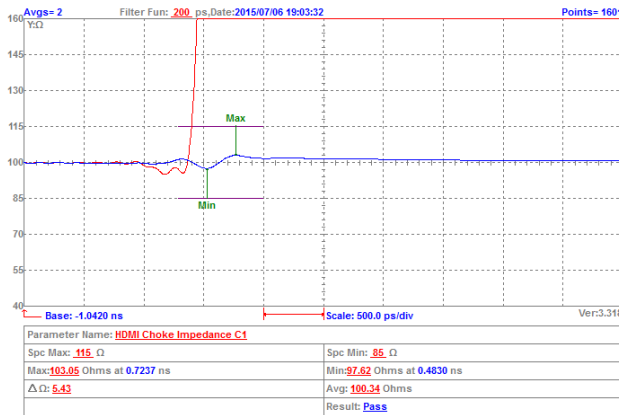
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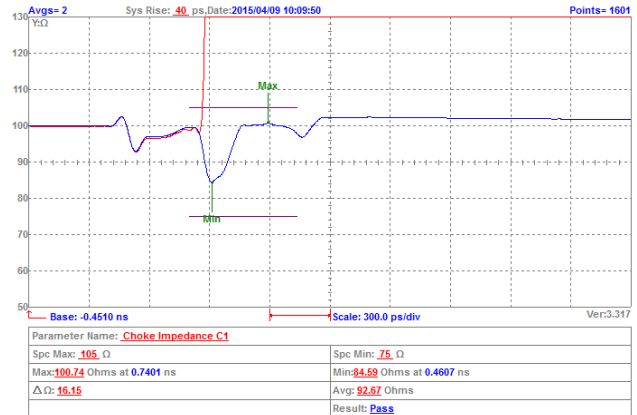
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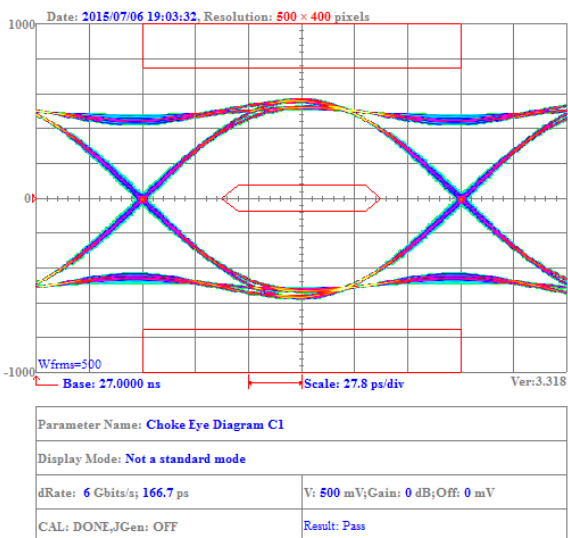
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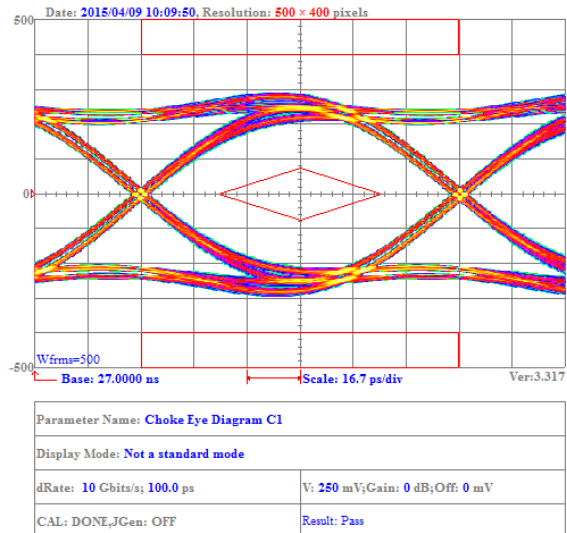
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



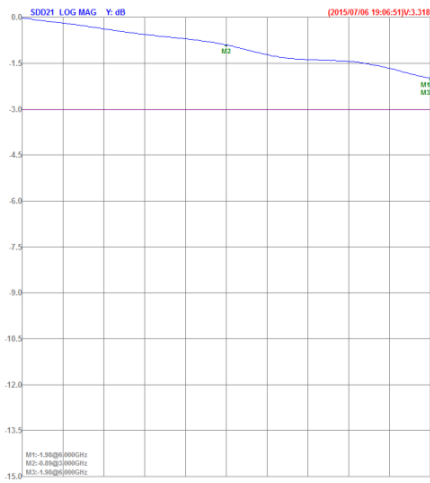
SMD Common Mode Choke

BWCU_02 Series For USB 2.0, IE EE1394b, LVDS Applications

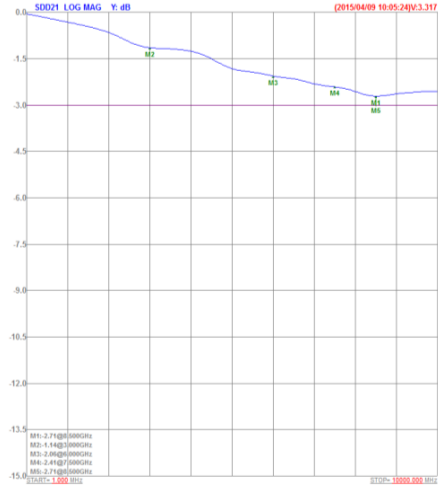


BWCU00201212121Y03

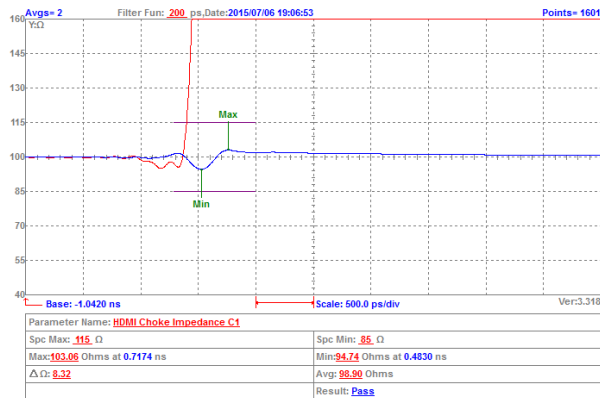
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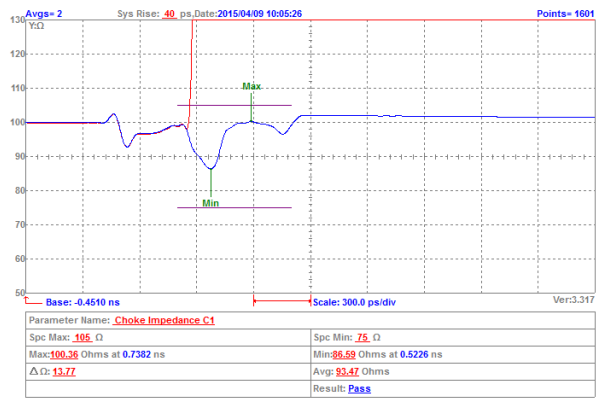
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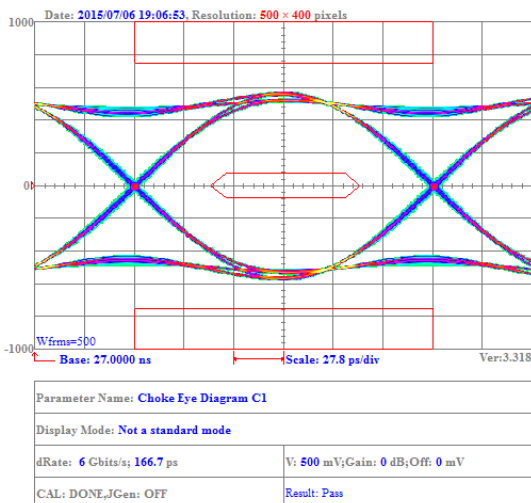
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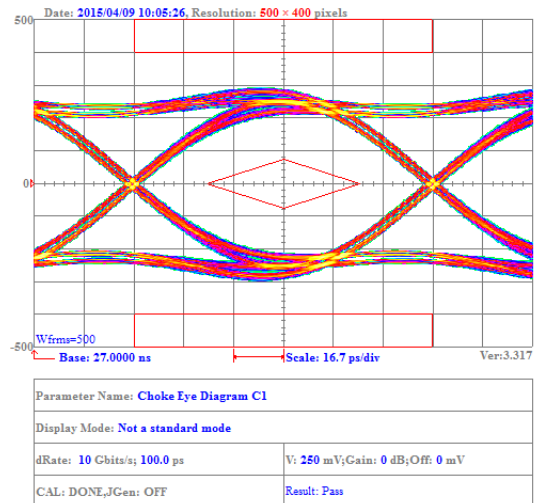
TDR For USB3.0 Testing:



Eye Diagram For HDMI2.0 Testing:



Eye Diagram For USB3.0 Testing:



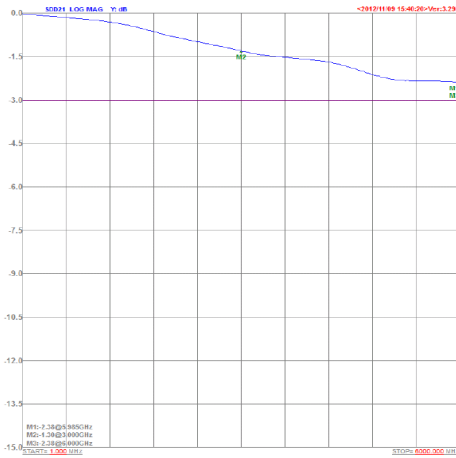
SMD Common Mode Choke

BWCU_02 Series For USB 2.0, IE EE1394b, LVDS Applications

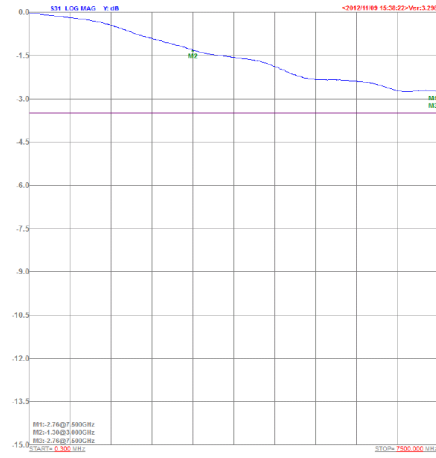
BWCU00201212131Y03



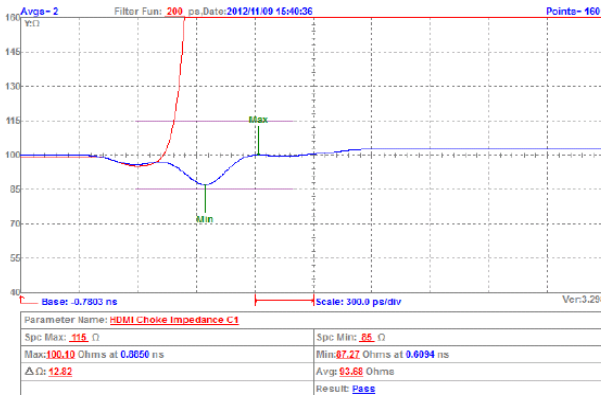
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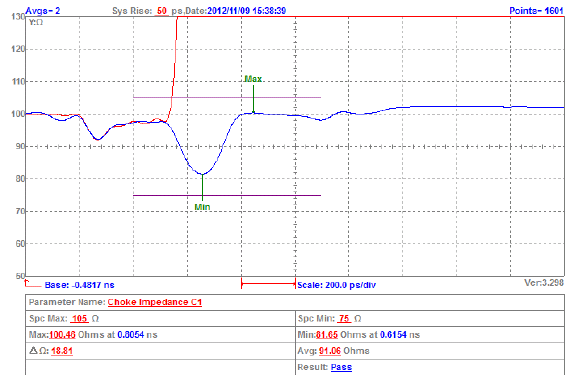
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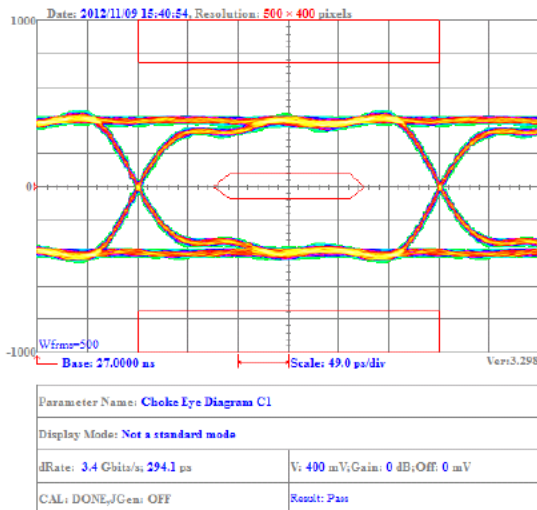
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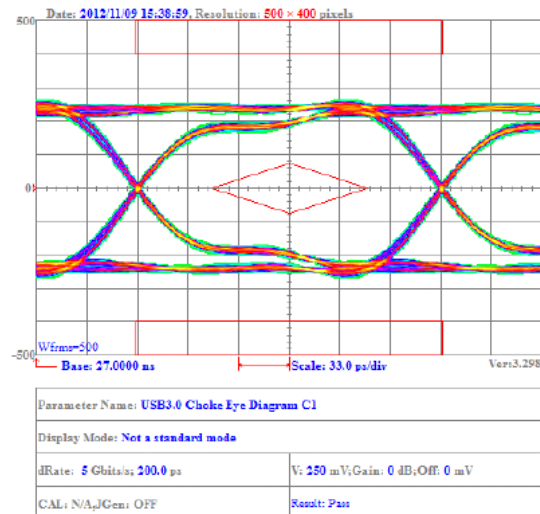
TDR For USB3.0 Testing:



Eye Diagram For HDMI Testing:



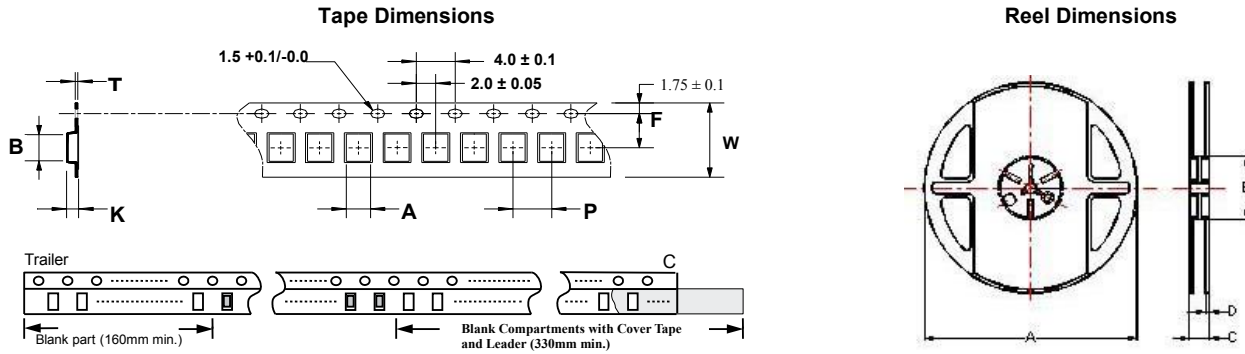
Eye Diagram For USB3.0 Testing:



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 |
|--------------|-----------------|------|------|---|---|-----|------|-----------------|----|----|-----|------------|
| | A | B | T | W | P | F | K | A | B | C | D | PCS / Reel |
| 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 | Europe - prodinfo_power_emea@yageo.com | Asia - prodinfo_power_asia@yageo.com

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