

Features and Benefits

ANTRONIX®

5-1675 MHz MoCA 2.0 Splitters MMC1000-B Series

Antronix's MoCA 2.0 splitters deliver new and expanded function. The MMC1000-B series of splitters has optimized MoCA 2.0 performance in the 975-1675 MHz band for compatibility with MoCA products, and for optimal data rates for video sharing, multi-room DVR service, video conferencing, and other MoCA applications. Like all Antronix products, our MoCA splitters are built to last. Every port on our splitters is 6 kV ring wave surge protected, while our proprietary ferrites remain ultra-linear following several surges. They employ high "O" surface mount technology (SMT) components, guaranteeing consistent performance over time and temperature.



- **MoCA 2.0 Optimized**
Supports MoCA 2.0 in the 975-1675 MHz band.
- **6 kV Ring Wave Surge Protected**
All ports are protected against multiple 6 kV ring wave surges per IEEE specification C62.41 Category A3.
- **-45 dBmV Spurious and Harmonics after 5 surges of 6 kV Ring Wave with a +55 dBmV Return Signal**
Proprietary ferrite blend inhibits re-magnetization of the core due to voltage spikes from impulse noise or lightning. The ferrite remains ultra linear to prevent intermodulation where high level return carriers can affect forward path video signals.
- **Eclipse Contact Technology (ECT) F-port**
Provides 400% more contact surface area for lower contact resistance and higher reliability.
- **Capacitively Coupled F-ports**
Protects against core re-magnetization and saturation while blocking AC surges.
- **100% Soldered Back**
Ensures repeatable 120 dB RFI shielding.



Specifications subject to change without notice

Features and Benefits



5-1675 MHz MoCA 2.0 Splitters MMC 1000-B Series

Specifications Horizontal Splitters

| Model # | | MMC1002H-B | | MMC1003H-B | | MMC1003BH-B | | MMC1004H-B | | MMC1006H-B | | MMC1008H-B | |
|---------------------------|------------|------------|-----|------------|------------|-------------|-----|------------|------|------------|------|------------|------|
| Specification | Freq (MHz) | Max/Min | Typ | Max/Min | Typ | Max/Min | Typ | Max/Min | Typ | Max/Min | Typ | Max/Min | Typ |
| Insertion Loss | | | | | | | | | | | | | |
| Maximum (dB) | 5-975 | 4.2 | 3.8 | 4.2 / 8.0 | 3.8 / 7.5 | 7.0 | 6.4 | 8.0 | 7.4 | 10.5 | 10.0 | 12.0 | 11.1 |
| | 975-1350 | 5.0 | 4.2 | 5.0 / 9.0 | 4.4 / 8.3 | 8.0 | 6.9 | 9.0 | 8.3 | 12.0 | 11.1 | 13.5 | 12.3 |
| | 1350-1675 | 6.0 | 5.4 | 6.2 / 11.2 | 5.3 / 10.3 | 10.2 | 9.2 | 11.2 | 10.3 | 13.7 | 12.8 | 16.2 | 15.3 |
| Isolation | | | | | | | | | | | | | |
| (dB) | 5-54 | >17 | 20 | >17 | 27 | >15 | 23 | >17 | 26 | >15 | 25 | >15 | 22 |
| | 54-750 | >25 | 27 | >22 | 26 | >17 | 23 | >22 | 28 | >18 | 25 | >18 | 22 |
| | 750-975 | >22 | 23 | >20 | 23 | >18 | 23 | >20 | 25 | >17 | 25 | >17 | 22 |
| | 975-1350 | <28 | 23 | <32 | 23 | <28 | 23 | <28 | 25 | <33 | 25 | <33 | 25 |
| | 1350-1675 | <25 | 16 | <32 | 23 | <28 | 23 | <28 | 25 | <33 | 25 | <33 | 25 |
| Input Return Loss | | | | | | | | | | | | | |
| Minimum (dB) | 5-54 | 14 | 16 | 14 | 16 | 14 | 18 | 14 | 17 | 14 | 16 | 14 | 18 |
| | 54-750 | 18 | 23 | 18 | 23 | 15 | 18 | 16 | 22 | 14 | 17 | 16 | 23 |
| | 750-975 | 16 | 20 | 14 | 18 | 14 | 18 | 14 | 18 | 14 | 18 | 15 | 20 |
| Output Return Loss | | | | | | | | | | | | | |
| Minimum (dB) | 5-54 | 14 | 20 | 14 | 20 | 14 | 18 | 14 | 20 | 14 | 18 | 14 | 25 |
| | 54-750 | 18 | 25 | 18 | 25 | 15 | 18 | 16 | 23 | 14 | 17 | 16 | 20 |
| | 750-975 | 16 | 20 | 16 | 20 | 14 | 18 | 16 | 20 | 14 | 18 | 15 | 18 |
| RFI Isolation | | | | | | | | | | | | | |
| dB(min) | 5-1675 | 120 | | | | | | | | | | | |

5-1675 MHz MoCA 2.0 Splitters MMC1000-B Series

Specifications Universal Splitters

| Model # | | MMC1002U-B | | MMC1003U-B | | MMC1004U-B | |
|---------------------------|------------|------------|-----|------------|------------|------------|------|
| Specification | Freq (MHz) | Max/Min | Typ | Max/Min | Typ | Max/Min | Typ |
| Insertion Loss | | | | | | | |
| Maximum (dB) | 5-975 | 4.0 | 3.8 | 4.1 / 8.0 | 3.8 / 7.5 | 8.0 | 7.4 |
| | 975-1350 | 5.0 | 4.2 | 5.0 / 9.0 | 4.4 / 8.3 | 9.0 | 8.3 |
| | 1350-1675 | 6.0 | 5.4 | 6.2 / 11.2 | 5.3 / 10.3 | 11.2 | 10.3 |
| Isolation | | | | | | | |
| (dB) | 5-54 | >17 | 20 | >17 | 27 | >17 | 26 |
| | 54-750 | >25 | 27 | >22 | 26 | >22 | 28 |
| | 750-975 | >22 | 23 | >20 | 23 | >20 | 25 |
| | 975-1350 | <28 | 23 | <32 | 23 | <32 | 25 |
| | 1350-1675 | <25 | 16 | <32 | 23 | <32 | 25 |
| Input Return Loss | | | | | | | |
| Minimum (dB) | 5-54 | 14 | 16 | 14 | 16 | 14 | 17 |
| | 54-750 | 18 | 23 | 18 | 23 | 16 | 22 |
| | 750-975 | 16 | 20 | 14 | 18 | 14 | 18 |
| Output Return Loss | | | | | | | |
| Minimum (dB) | 5-54 | 14 | 20 | 14 | 20 | 14 | 20 |
| | 54-750 | 18 | 25 | 18 | 25 | 16 | 23 |
| | 750-975 | 16 | 20 | 16 | 20 | 16 | 20 |
| RFI Isolation | | | | | | | |
| dB(min) | 5-1675 | 120 | | | | | |

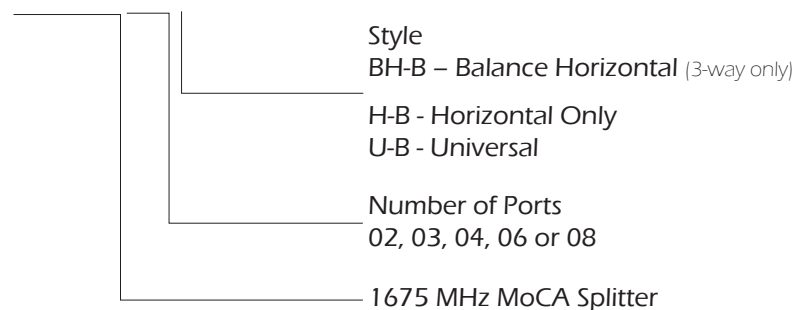
5-1675 MHz MoCA 2.0 Splitters MMC1000-B Series

| General | |
|-------------------------|---|
| Nominal Impedance | 75 Ω |
| F-connector Type | ANSI/SCTE-01 Compliant ECT F-port |
| Surge Withstand | 6 kV Ring Wave Surge per IEEE C62.41 Category A3 |
| Second Harmonic | -45 dBmV after five 6 kV ring wave surge with a +55 dBmV return input carrier |
| Regulatory | UL 467 |
| Environmental | |
| Pressure Seal | 15 psi |
| Operating Temperature | -40 °C to 70 °C |
| Shielding Effectiveness | Exceeds 120 dB per ANSI/SCTE 48-2 |
| Moisture Migration | Exceed ANSI/SCTE 60 |
| Corrosion Resistance | Exceeds ANSI/SCTE 143 specifications for 500 hours |

| Physical | | | |
|-------------------------------------|-------------|-------------|------------|
| Dimensions (Tol. ±0.5mm) | Length (mm) | Width (mm) | Depth (mm) |
| Model | | | |
| MMC1002H-B | 1.9 (48.0) | 2.4 (61.0) | 0.6 (16.2) |
| MMC1003H-B, MMC1003BH-B, MMC1004H-B | 1.9 (48.0) | 3.4 (86.0) | 0.6 (16.5) |
| MMC1006H-B, MMC1008H-B | 2.1 (52.3) | 4.0 (101.4) | 1.2 (31.0) |
| MMC1002U-B | 1.4 (36.5) | 2.3 (57.5) | 1.1 (30.0) |
| MMC1003U-B, MMC1004U-B | 1.6 (41.0) | 3.3 (85.0) | 1.2 (31.0) |

Ordering Information

MMC10XXX-B



(Ex.) MMC1003BH-B: 3-way horizontal splitter with balanced outputs