

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.



Features and Benefits



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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											

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Specifications Universal Splitters

Model #		MMC1002U-B		MMC1003U-B		MMC2004U-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					

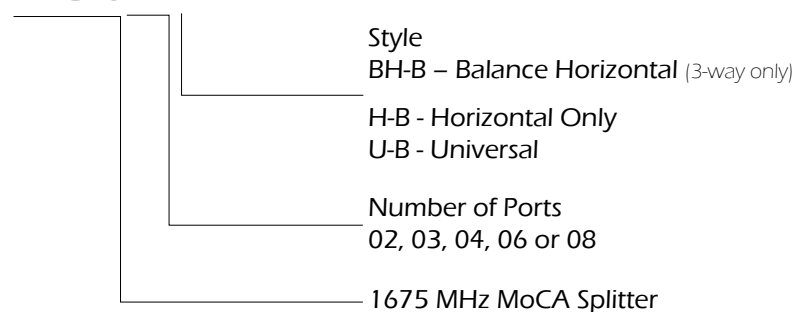
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General	
Nominal Impedance	75 Ω
F-connector Type	ANSI/SCTE-01 Compliant ECT F-port
Surge Withstand	6 kV Ring Wave Surge per IEEE C62.41 Category A3
Second Harmonic	-45 dBmV after five 6 kV ring wave surge with a +55 dBmV return input carrier
Regulatory	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