Features and Benefits

ANTRONIX®

1125-1675 MHz MoCA Splitters
MMC2000-A Series

Antronix's MoCA splitters deliver new and expanded function. The MMC2000-A series of splitters has optimized MoCA 2.0 and MoCA 2.5 performance in the 1125-1675 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 surge protected, while our proprietary ferrites remain ultra-linear following several surges. They employ high "Q" surface mount technology (SMT) components, guaranteeing consistent performance over time and temperature.

- **MoCA Optimized**
  Supports MoCA 2.0 and MoCA 2.5 in the 1125-1675 MHz band (Extended D-band).
- **6 kV Surge Protected**
  Input port is protected against multiple 6 kV combination wave surges. All ports are protected against multiple 6 kV surges.
- **-45 dBmV Spurious and Harmonics after Surge**
  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.

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Specifications
Horizontal Splitters

Model #		MMC2002H-A		MMC2003H-A		MMC2004H-A	
Specification	**Freq** (MHz)	**Max/Min**	**Typ**	**Max/Min**	**Typ**	**Max/Min**	**Typ**
Insertion Loss							
Maximum (dB)	5-10	3.7	3.3	3.7 / 7.1	3.3/6.7	7.1	6.7
	10-400	3.7	3.5	3.7 / 7.5	3.5/6.8	7.5	6.8
	400-600	4.0	3.7	4.0 / 7.7	3.7/7.1	7.7	7.1
	600-1218	4.6	4.0	4.6 / 8.6	4.0/8.0	8.6	8.0
	1218-1525	5.7	5.0	5.7 / 10.5	5.0/10.0	10.5	10.0
	1525-1675	6.7	5.8	6.7 / 11.5	6.1/11.2	11.5	10.5
Isolation							
Minimum (dB)	5-10	25	27	25	30	25	30
	10-85	35	40	35	40	35	38
	85-750	25	28	25	28	25	28
	750-1002	25	28	25	28	25	28
	1002-1218	20	25	20	25	20	25
Maximum (dB)	1275-1525	28	20	30	20	30	20
	1525-1675	28	18	30	20	30	20
Input Return Loss							
Minimum (dB)	5-15	18	20	18	20	18	20
	15-85	18	28	18	25	18	25
	85-750	18	23	18	23	18	23
	750-1002	18	23	18	23	18	23
	1002-1218	15	18	15	18	15	18
	1275-1675	5	–	5	–	5	–
Output Return Loss							
Minimum (dB)	5-15	18	20	18	20	18	20
	15-85	25	35	25	35	25	35
	85-750	18	25	18	23	18	23
	750-1002	18	23	18	23	18	23
	1002-1218	15	20	15	20	15	20
	1275-1675	5	–	5	–	5	–

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MMC2000-A Series

Specifications
Universal Splitters

Model #		MMC2002U-A		MMC2003U-A		MMC2004U-A	
Specification	**Freq** (MHz)	**Max/Min**	**Typ**	**Max/Min**	**Typ**	**Max/Min**	**Typ**
Insertion Loss							
Maximum (dB)	5-10	3.7	3.3	3.7 / 7.1	3.3/6.7	7.1	6.7
	10-400	3.7	3.5	3.7 / 7.5	3.5/6.8	7.5	6.8
	400-600	4.0	3.8	4.0 / 7.7	3.7/7.1	7.7	7.1
	600-1218	4.7	4.0	4.7/ 8.8	4.0/8.0	8.8	8.0
	1218-1525	5.8	5.3	5.7 / 10.5	5.0/10.0	10.5	10.0
	1525-1675	6.7	6.0	6.7 / 11.5	6.1/11.3	11.5	10.5
Isolation							
Minimum (dB)	5-10	25	27	25	30	25	30
	10-85	35	40	35	40	35	38
	85-750	25	28	25	28	25	28
	750-1002	25	28	25	28	25	28
	1002-1218	20	25	20	25	20	25
Maximum (dB)	1275-1525	28	20	30	20	30	20
	1525-1675	28	18	30	20	30	20
Input Return Loss							
Minimum (dB)	5-15	18	20	18	20	18	20
	15-85	18	28	18	25	18	23
	85-750	18	23	18	23	18	23
	750-1002	18	23	18	23	18	23
	1002-1218	15	18	15	18	15	18
	1275-1675	5	–	5	–	5	–
Output Return Loss							
Minimum (dB)	5-15	18	20	18	20	18	20
	15-85	25	35	25	35	25	35
	85-750	18	25	18	23	18	23
	750-1002	18	23	18	23	18	23
	1002-1218	15	20	15	20	15	20
	1275-1675	5	–	5	–	5	–

Specifications subject to change without notice

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Specifications
MMC2000-A Series

General	
Nominal Impedance	75 Ω
RFI Minimum	120 dB from 5-1218 MHz, 115 dB from 1218-1675 MHz
Surge Protection	6 kV Combination wave surge, IEEE C62.41 Cat. B3: Input port 6 kV Ring wave surge per IEEE C62.41 Cat. A3: All ports
Second Harmonic	-45 dBmV after 6 kV surge with a +55 dBmV return input carrier
F-connector Type	SCTE Compliant ECT F-port
Environmental	
Pressure Seal	15 psi
Operating Temperature	-40 °C to 60 °C
Corrosion Resistance	Meets ANSI/SCTE specification

Physical			
Dimensions (Tol. ±0.5mm)	**Length** (mm)	**Width** (mm)	**Depth** (mm)
Model			
MMC2002H-A	1.9 (48.0)	2.4 (61.0)	0.6 (16.2)
MMC2003H-A, MMC2004H-A	1.9 (48.0)	3.4 (86.0)	0.6(16.5)
MMC2002U-A	1.4 (36.5)	2.3 (57.5)	1.1 (30.0)
MMC2003U-A, MMC2004U-A	1.6 (41.0)	3.3 (85.0)	1.2 (31.0)

Ordering Information

MMC20XXX-A

- H - Horizontal
  U - Universal
- Number of Ports
  02, 03 or 04
- 1675 MHz MoCA Splitter

(Ex.) MMC2003H-A: 3-way horizontal splitter

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