Features and Benefits

ANTRONIX®

1 GHz Digital Splitters
CMC1000 Series

The Antronix CMC1000 series digital splitter is ideal for today's two-way broadband networks. Backed by the reputable Antronix brand, our digital splitters are among the most robust in the industry. Every port on each CMC1000 series splitter can withstand 6 kV ring wave surges, while our proprietary ferrites remain ultra-linear following several surges. To ensure years of reliable performance, Antronix's digital splitters are encased in a Zinc Alloy diecast housing with tin plating. Capacitively coupled F-ports block AC surges and prevent hum modulation.

- **6 kV Ring Wave Surge Resilient**
  All ports can withstand 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 bead 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.
- **Digital and HDTV Ready**
  Compatible with existing and future networks including VoIP applications.
- **Flat 1 GHz Bandwidth with Minimal Insertion Loss**
  Supports present and future multimedia applications including video, data and telephony.
- **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.
- **Zinc Alloy Diecast Housing and Backplate w/Proprietary Nickel Alloy Plating**
  Superior corrosion resistant plating combined with a diecast backplate protects the back of the housing where corrosion is more prominent.
- **100% Soldered Back**
  Ensures repeatable 120 dB RFI shielding.
- **1 inch Port-to-Port Spacing Flat 15 psi Sealed, SCTE Compliant F-Ports**
  Prevents water migration in to the splitter and ensures an excellent ground connection.
- **UV Resistant Label**

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Electrical Specifications

CMC1000 Series Horizontal Splitters

Model #		CMC1002H		CMC1003H		CMC1003BH		CMC1004H	
Specification	**Freq** (MHz)	**Max/Min**	**Typ**	**Max/Min**	**Typ**	**Max/Min**	**Typ**	**Max/Min**	**Typ**
Insertion Loss									
Maximum (dB)	5-400	3.6	3.5	3.6 / 7.2	3.5 / 7.0	6.1	5.8	7.2	7.0
	400-600	4.0	3.7	4.0 / 7.8	3.8 / 7.5	6.5	6.0	7.8	7.2
	600-1002	4.4	3.8	4.4 / 8.8	4.0 / 8.0	7.0	6.3	8.8	7.6
Isolation									
Minimum (dB)	5-10	22	30	22	30	22	30	22	30
	10-65	30	38	30	35	30	30	30	35
	65-600	25	30	25	30	22	25	25	28
	600-870	22	28	22	28	22	25	22	25
	870-1002	22	28	22	28	22	25	22	25
Input Return Loss									
Minimum (dB)	5-10	18	25	18	25	18	28	18	22
	10-65	18	30	18	28	18	30	18	22
	65-600	18	24	18	24	18	24	18	24
	600-1002	18	24	18	24	18	24	18	24
Output Return Loss									
Minimum (dB)	5-10	18	28	18	25	18	25	18	25
	10-65	18	30	18	30	18	33	18	30
	65-600	18	24	18	24	18	24	18	24
	600-1002	18	24	18	24	18	24	18	24
RFI Isolation									
dB(min)	5-1000	120							

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Specifications

CMC1000 Series Horizontal Splitters

General	
Nominal Impedance	75 Ω
F-Connector Type	ANSI/SCTE-01 (formerly SCTE IPS-SP-400) Compliant ECT F-port
Surge Withstand	6 kV Ring Wave Surge per IEEE C62.41 Category A3
Second Harmonic	-45 dBmV after 5 surges of 6 kV ring wave with a +55 dBmV return input carrier
Operating Temperature	–40 °C to 60 °C

Physical			
Dimensions (Tol. ±0.5mm)	**Length** (mm)	**Width** (mm)	**Depth** (mm)
Model			
CMC1002H	1.8 (45.0)	2.2 (55.0)	0.6 (16.2)
CMC1003H CMC1003BH CMC1004H	1.9 (48.0)	3.3 (85.0)	0.6(16.2)

Ordering Information

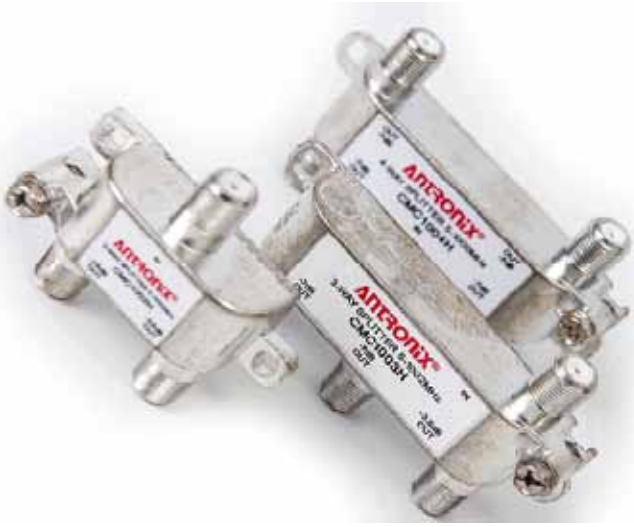
CMC10XXXX

Style
H – Horizontal
BH – Balanced Horizontal (3-way only)

Number of Ports
02, 03 or 04

Capacitively coupled
1 GHz Splitter

BH: 3-way horizontal splitter with balanced outputs



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