Features and Benefits

ANTRONIX®

1.8 MDU Splitter
CMC5000H

Antronix's extended bandwidth 1.8 GHz digital horizontal splitters are engineered for robust service in the most demanding Multiple Dwelling Unit (MDU) architectures requiring multiple service outlets. The 8- and 16-port devices provide the speed and data capacity of Extended Spectrum DOCSIS performance. Every port on each CMC5000H splitter is 6 kV ring wave surge protected, while our proprietary ferrites remain ultra-linear following several surges. The CMC5000H series digital splitters employ high "Q" surface mount technology (SMT) components, guaranteeing consistent performance over time and temperature. They are our standard multi-port splitter housing for uniformed network installation.

- **Flat 1.8 GHz Bandwidth with Minimal Insertion Loss**
  Supports present and future multimedia applications including video, data and telephony.
- **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.
- **Digital Broadcast and HDTV Ready**
  Compatible with existing and future networks.
- **Flat 1 GHz Bandwidth with Minimal Insertion Loss**
  Supports present and future multimedia applications including video, data and telephony.
- **35 dB Return Path Output Return Loss and 40 dB Port-to-Port Return Band Isolation**
  Excellent return path performance compatible with two-way digitally modulated networks.
- **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-port**
  Prevents water migration in to the splitter and ensures an excellent ground connection.
- **UV Resistant Label**
- **Integrated Mounting Tabs and Heavy Duty Ground Block for Years of Reliable Service**

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Specifications
CMC5000H

Model#		CMC5008HB		CMC5016H	
Specification	**Frequency** (MHz)	**Max/Min**	**Typ**	**Max/Min**	**Typ**
Insertion Loss dB(max)	5-40	11.0	10.6	14.5	14.1
	40-200	11.0	10.4	14.5	13.9
	200-550	11.2	10.9	15.5	14.5
	550-750	11.7	11.0	15.5	14.7
	750-1002	12.2	11.5	16.0	15.3
	1002-1218	12.7	12.0	17.0	15.9
	1218-1675	13.5	13.0	18.5	17.4
	1675-1800	14.0	13.3	19.5	17.8
Isolation dB(min)	5-10	20	22	20	22
	10-40	23	28	23	28
	40-200	24	30	24	30
	200-550	26	35	26	35
	550-750	26	30	26	30
	750-1002	22	28	22	27
	1002-1218	20	25	20	24
	1218-1675	20	22	20	22
	1675-1800	18	20	18	20
Input Return Loss dB(min)	5-10	16	18	16	18
	10-200	16	20	16	20
	200-550	18	22	18	22
	550-750	18	22	18	25
	750-1002	18	22	18	22
	1002-1218	16	20	16	20
	1218-1675	15	18	15	19
	1675-1800	15	18	15	17
Output Return Loss dB(min)	5-40	18	22	18	22
	40-200	18	32	18	32
	200-550	20	28	20	28
	550-750	20	26	20	26
	750-1002	18	21	18	21
	1002-1218	16	18	16	18
	1218-1675	15	18	15	18
	1675-1800	15	17	15	17
RFI Isolation dB(min)	5-1218	120			
	1218-1675	115			
	1675-1800	100			

General	
F-connector Type	ANSI/SCTE 01 Compliant F-port
Operating Temperature	-40°C to +60°C
Second Harmonic	-60 dBmV, measured with a +55 dBmV return input
Surge Withstand	6 kV Ring Wave (IEEE C62.41-1991 Cat. A3) on all ports
Nominal Impedance	75 Ω

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