

# Features and Benefits

**ANTRONIX®**

## 8 Way Splitter CMC2008HB

Reliability, quality and performance define Antronix CMC2008HB multi-port splitters. They are designed for use in Multiple Dwelling Unit (MDU) applications requiring multiple service outlets and are among the most robust in the industry. Every port on each CMC2008HB splitter is 6 kV ring wave surge protected, while our proprietary ferrites remain ultra-linear following several surges. The CMC2008HB series digital splitters employ high "O" surface mount technology (SMT) components, guaranteeing consistent performance over time and temperature. The CMC2008HB is in our standard multi-port splitter housing for uniformed network installation.



- **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 CMC2008HB

Forward Specification	Frequency (MHz)	QA Specification	Typical
<b>Insertion Loss</b> dB	5-10	10.0 ± 0.8	10.0 ± 0.5
	10-50	10.5 ± 1.0	10.5 ± 0.8
	50-450	10.5 ± 1.0	10.5 ± 0.8
	450-750	10.5 ± 1.0	10.5 ± 0.8
	750-1002	11.0 ± 1.2	11.0 ± 1.0
<b>Isolation</b> dB(min)	5-10	21	26
	10-50	24	28
	50-450	24	26
	450-750	24	26
	750-1002	21	24
<b>Input Return Loss</b> dB(min)	5-10	18	20
	10-50	20	20
	50-450	18	20
	450-750	18	20
	750-1002	18	20
<b>Output Return Loss</b> dB(min)	5-10	18	20
	10-50	20	22
	50-450	20	22
	450-750	20	22
	750-1002	18	20
<b>RFI Isolation</b> dB(min)	5-1002		120

### General

F-connector Type	NSI/SCTE 01 (formerly SCTE IPS-SP-400) Compliant Brass Sealed CamPort®
Operating Temperature	-23 °C to +70 °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