Features and Benefits

ANTRONIX®

1 GHz Digital Splitters
MDU Splitters

Reliability, quality and performance define the Antronix series of 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 splitter is 6 kV ring wave surge protected, while our proprietary ferrites remain ultra-linear following several surges. The MDU splitters employ high "Q" components, guaranteeing consistent performance over time and temperature. The Antronix MDU splitters are 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.
- **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.
- **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

1 GHz Digital MDU Splitters

Model#		CMC2008HB		CMC2012H		CMC2016H	
Forward Specifications	**Freq** (MHz)	**QA Spec**	**Typ**	**QA Spec**	**Typ**	**QA Spec**	**Typ**
Insertion Loss dB	5-10	10.0 ± 0.8	10.0 ± 0.5	13.5 ± 0.8	13.5 ± 0.5	13.5 ± 0.8	13.5 ± 0.5
	10-50	10.5 ± 1.0	10.5 ± 0.8	13.5 ± 0.8	13.5 ± 0.8	13.5 ± 1.0	13.5 ± 0.8
	50-450	10.5 ± 1.5	10.5 ± 0.8	14.0 ± 1.5	14.0 ± 0.8	14.0 ± 1.5	14.0 ± 0.8
	450-750	10.5 ± 1.5	10.5 ± 0.8	14.5 ± 1.5	14.5 ± 1.0	14.5 ± 1.5	14.5 ± 1.0
	750-1002	11.0 ± 1.5	11.0 ± 1.0	15.0 ± 1.5	15.0 ± 1.5	15.0 ± 1.2	15.0 ± 1.0
Isolation dB(Min)	5-10	21	26	21	26	21	26
	10-50	24	28	24	28	24	28
	50-450	24	26	24	26	24	26
	450-750	24	26	24	26	24	26
	750-1002	21	24	21	24	21	24
Input Return Loss dB(Min)	5-10	18	20	18	20	18	20
	10-50	20	20	20	20	20	20
	50-450	18	20	18	20	18	20
	450-750	18	20	18	20	18	20
	750-1002	18	20	18	20	18	20
Output Return Loss dB(Min)	5-10	18	20	18	20	18	20
	10-50	20	22	20	22	20	22
	50-450	20	22	20	22	20	22
	450-750	20	22	20	22	20	22
	750-1002	18	20	18	20	18	20
RFI Isolation dB(Min)	5-1002	120					

General	
F-connector Type	ANSI/SCTE 01 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

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