

Features and Benefits

ANTRONIX®

1 GHz Horizontal & Vertical Digital Splitters with CamPort® CMC 3000 Series

Performance, reliability and quality define the Antronix CMC3000 series digital splitter. Our digital splitters have been designed specifically for today's two-way broadband networks. Antronix's patented CamPort® auto-seizing F-port connector enhances reliability with zero insertion force and >2000 grams pull force. Additionally, our digital splitters are among the most robust in the industry. For additional reliability Antronix engineers have designed our ferrites to remain ultra-linear even after several surges. Use of high "Q" surface mount technology (SMT) components, guarantees consistent performance over time and temperature.



- **Patented Auto-Seizing CamPort®**
 - Provides full contact pressure along the entire connector center pin for the most reliable F-port on the market today.
 - Zero insertion force and >2000 grams pull force.
- **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.
- **Zinc Alloy Diecast Housing and Backplate with Proprietary Nickel Alloy Plating**

Superior corrosion resistant plating combined with a diecast backplate protects the back of the housing where corrosion is more prominent.
- **Capacitively Coupled F-Ports**

Protects against core re-magnetization and saturation while blocking AC surges, enhancing hum-modulation performance.
- **35 dB Return Path Output Return Loss**

Provides 400% more contact surface area for lower contact resistance and higher reliability.
- **40 dB Port-to-Port Return Band Isolation**

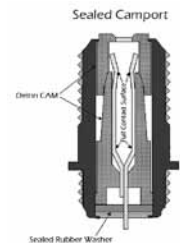
Prevents high level cable modem signal on one port from overdriving a TV tuner or converter on the other port.
- **Flat 15 psi Sealed, SCTE Compliant F-Ports**

Prevents water migration in to the splitter and ensures an excellent ground connection.
- **Flat 1 GHz Bandwidth with Minimal Insertion Loss**

Supports present and future multimedia applications including video, data and VOIP.
- **Digital Broadcast and HDTV Ready**

Compatible with existing and future networks.
- **100% Soldered Back**

Ensures repeatable 120 dB RFI shielding.
- **1 inch Port-to-Port Spacing**
- **Integrated Mounting Tabs and Heavy Duty Ground Block**
- **UV Resistant Label**
- **Approved with most Major Cable Operators**



Specifications subject to change without notice

Electrical Specifications

1 GHz Horizontal Digital Splitters with CamPort®

Model #		CMC3002H		CMC3003H		CMC3003BH		CMC3004H		CMC3008H		CMC3016H	
Specification	Freq (MHz)	Max/Min	Typ	Max/Min	Typ	Max/Min	Typ	Max/Min	Typ	Max/Min	Typ	Max/Min	Typ
Insertion Loss													
Maximum (dB)	5-14	3.5	3.3	3.5 / 7.0	3.3 / 6.8	6.0	5.5	7.0	6.8	11.0	10.8	13.5	13.5
	14-40	3.5	3.3	3.6 / 7.0	3.3 / 6.8	5.8	5.5	7.0	6.8	11.0	10.8	14.2	14.0
	40-200	3.8	3.6	3.6 / 7.2	3.3 / 7.0	5.8	5.5	7.2	6.8	11.2	10.8	14.2	14.0
	200-550	3.8	3.6	3.8 / 7.4	3.6 / 7.2	5.8	5.6	7.5	7.2	11.3	11.0	14.2	14.0
	550-750	3.8	3.7	3.8 / 7.6	3.6 / 7.4	6.0	5.8	7.6	7.4	11.5	11.2	14.3	14.0
	750-1002	4.0	3.8	4.2 / 8.2	4.0 / 8.0	6.8	6.5	8.0	7.8	12.5	12.0	15.3	15.0
Isolation													
Minimum (dB)	5-14	22	25	22	25	22	25	22	25	22	25	22	23
	14-40	35	40	35	40	33	38	35	40	30	38	25	26
	40-200	25	30	25	30	25	28	25	30	25	30	25	26
	200-550	25	28	25	28	25	28	25	28	25	28	25	26
	550-750	25	28	25	28	22	26	25	28	25	28	25	26
	750-1002	22	24	22	24	22	24	22	24	22	24	22	23
Input Return Loss													
Minimum (dB)	5-14	20	22	20	22	20	22	20	22	20	22	19	20
	14-40	22	25	22	25	22	25	20	22	25	25	19	20
	40-200	20	22	20	22	20	22	20	22	20	22	19	20
	200-550	20	22	20	22	20	22	20	22	20	22	19	20
	550-750	20	22	20	22	20	22	20	22	20	22	19	20
	750-1002	20	22	20	22	20	22	20	22	20	22	19	20
Output Return Loss													
Minimum (dB)	5-14	20	22	20	22	20	22	20	22	20	22	20	21
	14-40	30	38	30	38	25	35	30	38	28	35	20	22
	40-200	20	28	20	28	20	25	20	28	22	28	20	22
	200-550	20	25	20	25	20	22	20	25	20	25	20	22
	550-750	20	22	20	22	20	22	20	22	20	22	20	22
	750-1002	20	22	20	22	20	22	20	22	20	22	20	22
RFI Isolation													
dB (min)	5-1002												120



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Electrical Specifications

1 GHz Vertical Digital Splitters with CamPort®

Model #		CMC3002V		CMC3003V		CMC3003BV		CMC3004V		CMC3006V		CMC3008V	
Specification	Freq (MHz)	Max/Min	Typ	Max/Min	Typ	Max/Min	Typ	Max/Min	Typ	Max/Min	Typ	Max/Min	Typ
Insertion Loss													
Maximum (dB)	5-14	3.5	3.3	3.5 / 7.0	3.3 / 6.8	5.8	5.5	7.0	6.8	9.2	9.0	11.0	10.8
	14-40	3.5	3.3	3.5 / 7.0	3.4 / 6.8	5.8	5.5	7.2	6.8	9.2	9.0	11.0	10.8
	40-200	3.6	3.5	3.6 / 7.2	3.4 / 7.0	5.8	5.5	7.4	7.0	9.4	9.2	11.2	10.8
	200-550	3.8	3.5	3.8 / 7.4	3.6 / 7.2	6.0	5.8	7.6	7.2	9.6	9.4	11.6	11.0
	550-750	3.9	3.6	4.0 / 7.8	3.8 / 7.4	6.2	6.0	7.8	7.4	9.8	9.6	11.8	11.2
	750-1002	4.3	3.9	4.3 / 8.3	4.0 / 8.0	6.8	6.5	8.2	7.8	10.5	10.0	12.5	12.0
Isolation													
Minimum (dB)	5-14	22	25	22	25	22	25	22	25	22	25	22	25
	14-40	35	40	35	40	32	38	35	40	28	35	30	40
	40-200	25	35	25	30	25	35	25	35	25	28	25	35
	200-550	25	28	25	28	22	28	25	28	25	26	25	28
	550-750	25	28	25	28	22	26	25	26	22	26	25	26
	750-1002	22	24	22	24	22	24	22	24	22	24	22	24
Input Return Loss													
Minimum (dB)	5-14	20	22	20	22	20	22	20	22	20	22	20	22
	14-40	24	25	24	25	22	25	20	22	20	22	22	25
	40-200	20	22	20	22	20	22	20	22	20	22	20	22
	200-550	20	22	20	22	20	22	20	22	20	22	20	22
	550-750	20	22	20	22	20	22	20	22	20	22	20	22
	750-1002	20	22	20	22	20	22	20	22	20	22	20	22
Output Return Loss													
Minimum (dB)	5-14	20	22	20	22	20	22	20	22	20	22	20	22
	14-40	30	38	28	38	25	35	30	38	25	30	25	35
	40-200	25	28	22	28	22	25	22	28	22	25	22	28
	200-550	20	25	20	25	20	22	20	25	20	22	20	25
	550-750	20	22	20	22	20	22	20	22	20	22	20	22
	750-1002	20	22	20	22	20	22	20	22	20	22	20	22
dB (min)	5-1002	120											



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Specifications

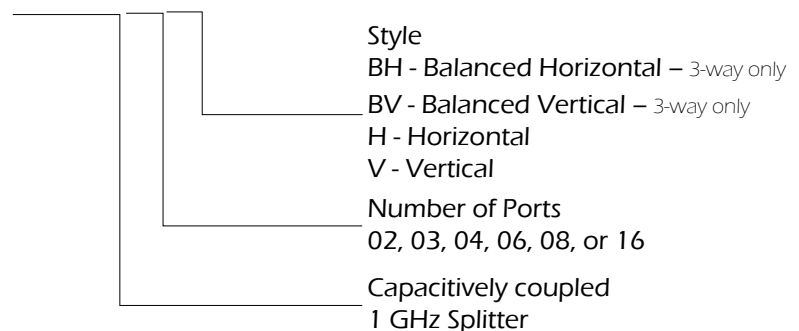
1 GHz Horizontal & Vertical Digital Splitters with CamPort®

General	
Nominal Impedance	75 Ω
F-Connector Type	ANSI/SCTE (formerly SCTE IPS-SP-400) Compliant Sealed Brass CamPort®
F-Connector Torque Specs	30 in. lbs. (max)
Surge Protection	6 kV Ring Wave Surge per IEEE C62.41 Category A3 Compliant
Second Harmonic	-45 dBmV after 6 kV ring Wave Surge with a +55 dBmV Return Input Carrier
Environmental	
Pressure Seal	15 psi
Operating Temperature	-40 °C to 60 °C
Corrosion Resistance	Meets SCTE/ANSI Specification

Physical			
Dimensions (Tol. ±0.04in/1.0mm)	Length (mm)	Width (mm)	Depth (mm)
Model			
CMC3002H	2.1 (53.0)	2.4 (59.8)	0.6 (16.5)
CMC3003H CMC3003BH CMC3004H	2.1 (53.5)	3.4 (86.1)	0.6 (16.5)
CMC3008H	2.1 (52.3)	4.0 (101.3)	1.2 (31.0)
CMC3016H	9.4 (238.5)	2.7 (68.2)	1.5 (38.0)
CMC3002V	1.5 (39.0)	2.3 (59.0)	1.2 (30.7)
CMC3003V CMC3003BV CMC3004V	1.7 (42.4)	3.3 (83.9)	1.3 (32.0)
CMC3006V CMC3008V	2.8 (70.5)	3.5 (89.9)	1.2 (31.0)

Ordering Information

CMC30XXXX



(Ex.) CMC3003BH: 3-way horizontal splitter with balanced outputs