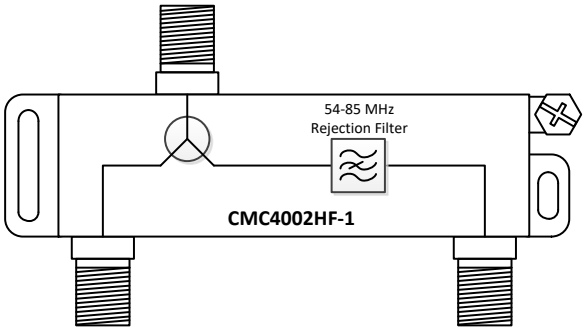
Features and Benefits

1.2 GHz Midsplit Interference Rejection Splitter
CMC4002HF-1

This specialty 2-way splitter has an integrated rejection filter on one output port to prevent a mid-split transmitting modem on one port from saturating legacy sub-split set-top boxes on another port. This is designed to be installed in homes moving from a sub split to mid split network.

- **Integrated Interference Rejection Window Filter on one Port**
  Rejection filter on one port allows legacy sub-split set-top-boxes to operate in a mid-split environment.
- **6 kV Ring Wave Surge Withstand**
  All ports withstand multiple 6 kV ring wave surges per IEEE specification C62.41 Category A3.
- **-45 dBmV Spurious and Harmonics after 6 kV Ring Wave Surges with +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.
- **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 Allow Diecast Housing w/ 100% Soldered Backplate**
  Superior corrosion resistant tin plating with repeatable RFI shielding.
- **1 inch Port-to-Port Spacing 15 psi Sealed, SCTE Compliant F-port**
  Prevents water migration and flat F-port interface ensures an excellent ground connection to F-connector.



Specifications
CMC4002HF-1

Specification	Frequency (MHz)	Max/Min	Typ
Insertion Loss (IN-WF) dB (max)	5-35	5.0	4.0
	35-42	5.4	4.2
	102-550	5.4	4.3
	550-750	5.4	4.3
	750-1002	5.5	4.5
	1002-1218	5.9	5.2
Insertion Loss (IN-OUT) dB (max)	5-85	3.6	4.0
	85-200	3.8	4.2
	200-500	3.8	4.3
	550-750	3.9	4.3
	750-1002	4.3	4.5
	1002-1218	4.6	5.2
Isolation (OUT-WF) dB (min)	5-15	24	22
	15-54	34	28
	54-85	50	28
	85-200	30	28
	200-750	25	27
	750-1218	22	23
Rejection (IN-WF) dB (min)	54-85	46	48
Return Loss (IN & WF) dB (min)	5-42	16	18
	102-1218	16	18
Return Loss (OUT) dB (min)	5-1218	16	18
Screening Effectiveness dB(min)	5-1218	120	

General	
Nominal Impedance	75Ω
Second Harmonic	-45 dBmV after 6 kV Ring Wave Surge with a +55 dBmV Return Input Carrier
F-connector Type	SCTE Compliant ECT F-port

Environmental	
Operating Temperature	-40°C to +60°C
Surge Withstand	6 kV Ring Wave Surge, IEEE C62.41 Cat. A3
Pressure Seal	15 psi
Corrosion Resistance	ANSI/SCTE-143 salt spray for 1000 hours