

Digital Splitters

Engineered with reliability and functionality in mind Evolution's digital splitters deliver superb RF performance for today's evolving cable networks. With quality as our primary objective, 100% of our splitters are QC tested at the factory prior to being shipped. Our UL Listed splitters are specially designed with raised bodies to provide more room for the installation of connectors and to allow moisture to pass behind the splitter instead of trapping moisture on the back plate.

The unique manufacturing process used to make our digital splitters eliminates parting lines on the splitters ports, which are a source of moisture migration. Patented, enhanced conical seizure mechanisms are used in all splitters to maximize contact surface and center conductor retention.

The zinc die cast housings and back plates are plated using a proprietary multilayer nickel plating process that offers excellent corrosion protection. All back plates are soldered to ensure a hermetical seal and RFI isolation.



Features & Benefits

- Outstanding quality, 100% QC tested
- Manufacture date stamp on back plate.
- UL Listed
- Precision machined F-ports with no parting lines.
- Raised body for ease of installation
- Patented enhanced conical seizure mechanisms
- Proprietary multilayer nickel plating offers excellent corrosion protection
- 1 kV Blocking capacitors on all ports
- Conforms to all applicable ANSI/SCTE standards



EV01-SP-3



EV01-SP-2



EV01-SP-4

Ideas to Solutions for a Digital World

Specifications

Insertion Loss (dB)	Units	2-Way	3-Way Unbalanced	3-Way Balanced	4-Way	8-Way
5-400	MHz	3.3	3.3/6.7	5.6	6.6	10.6
400-600	MHz	3.4	3.5/6.8	6.0	6.8	10.9
600-1002	MHz	3.7	4.0/7.1	6.5	7.5	11.5

Passband Response (dB)

5-1002	MHz	± 0.4				
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Isolation (dB)

5-10	MHz	35	35	38	38	36
10-65	MHz	40	38	36	40	38
65-870	MHz	30	29	29	29	29
870-1002	MHz	30	29	27	29	28

Return Loss (dB)

5-1002	MHz	20				
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General Specifications

Impedance	ohms	75				
Surge Protection	-	All F-ports: IEEE C62.41-1991 Category A3, Ring Wave 6 kV 200 amperes per ANSI/SCTE 81 2007				
Intermodulation Distortions	dBc	better than -95 per SCTE 145 2008				
RFI Isolation	dB	130				
Warranty	-	5 years				

Environmental Specifications

Operating Temperature	°C	-40 to +60				
Hermetically Sealed Ports	psi	15				
Corrosion Resistance	-	1,000 hour salt spray per SCTE 143 2007				

All values are typical unless noted otherwise and are valid for horizontal and vertical splitters.

Specifications are subject to change without notification.



Ordering Information Products are available in the following configurations:

Horizontal

- EVOI-SP-2** • 2-Way Digital Splitter, 1002 MHz, Horizontal
- EVOI-SP-3** • 3-Way Digital Splitter, Unbalanced, 1002 MHz, Horizontal
- EVOI-SP-3B** • 3-Way Digital Splitter, Balanced, 1002 MHz, Horizontal
- EVOI-SP-4** • 4-Way Digital Splitter, 1002 MHz, Horizontal
- EVOI-SP-8** • 8-Way Digital Splitter, 1002 MHz, Horizontal

Vertical

- EVOI-SP-2V** • 2-Way Digital Splitter, 1002 MHz, Vertical
- EVOI-SP-3V** • 3-Way Digital Splitter, Unbalanced, 1002 MHz, Vertical
- EVOI-SP-3VB** • 3-Way Digital Splitter, Balanced, 1002 MHz, Vertical
- EVOI-SP-4V** • 4-Way Digital Splitter, 1002 MHz, Vertical
- EVOI-SP-8V** • 8-Way Digital Splitter, 1002 MHz, Vertical