

## Digital Plus

### Horizontal Splitters for Cable TV Installations



Emerson Network Power Connectivity Solutions offers its *Digital Plus* series of horizontal splitters in 2, 3, 4, 6 and 8-port models. A full line of *Digital Plus* vertical splitters is also available as an alternative where space is restricted.

Designed not only to split the broadband signal, but also to protect it from electrical disturbances, these splitters are constructed with surge suppression circuitry which prevents damage to cable set top boxes, televisions, and other attached multimedia devices. *Digital Plus* is a family of digital ready passive devices with a 5-1000MHz Pass Band which offers excellent insertion loss, return loss and port-to-port isolation, as well as improved performance in the return band.

Our **Viewsonics** family of *Digital Plus* Horizontal Drop Splitters combine excellent electrical performance with enhanced environmental resistance. The zinc die cast housing is tin plated, and the back plates are solder sealed for maximum corrosion resistance. All ports are precision machined with 360° style 'F' port contacts which meet the requirements of SCTE SP-400.

#### Key Features & Benefits

- Available in Vertical and Horizontal Styles
- Low Intermodulation
- All Ports Surge Protected
- Excellent Insertion Loss and Return Loss
- Over 30dB typical isolation in the return band
- Enhanced Performance from 5-42 MHz
- 360° Style 'F' Port Inserts
- Passes 1,000 Hour Salt Spray Test

## Digital Plus Horizontal Splitter Specifications

	VS2WDS	VS3WDS	VS3WBDS	VS4WDS	VS6WDS	VS8WDS
Number of Output Ports	2 Ports	3 Ports	3 Ports	4 Ports	6 Ports	8 Ports
Surge Protection (All ports)	IEEE 587 (C62.41-1991) Category A3 standard (1KV, 100 kHz ring wave)					
Rated Operating Temperature	-40°F to +140°F (-40°C to +60°C)					
Housing Dimensions (L" x W" x H") (nom.) **	2.35x1.93x.625	3.50x1.93x.625	3.50x1.93x.625	3.50x1.93x.625	4.4x2.1x1.25	4.4x2.1x1.25
Weight (oz) (nom.)	1.6	2.2	2.2	2.4	4.7	4.8
RFI Shielding (dB)	>100	>100	>100	>100	>100	>100
Pass Band (MHz)	5-1000	5-1000	5-1000	5-1000	5-1000	5-1000
Pass Band Response (dB)	1.0	1.0	1.0	1.0	1.25	1.25
<b>Insertion Loss:</b>						
5-550 MHz (dB)	3.5	3.5 (low loss port) 7.2 (all other ports)	6.2	7.2	10.5	11.5
550-1000 MHz (dB)	3.9	3.9 (low loss port) 7.9 (all other ports)	6.9	7.8	11.5	12.5
<b>Return Loss:</b>						
5-15 MHz & 54-1000 MHz (dB)	20 dB (input and output ports)					
15-40 MHz (dB)	30 dB (output ports), 25 dB (input port)					
<b>Port to Port Isolation:</b>						
5-15 MHz & 54-1000 MHz (dB)	22.0	22.0	22.0	22.0	22.0	22.0
15-40 MHz (dB)	30.0	30.0	30.0	30.0	30.0	30.0
Spurious signals including 2nd harmonics	-40dBmV, after 1KV ring wave surge, measuring with a 55dBmV return.					

\* Note: All of the above specifications are worst case within the operating temperature range.

\*\* Note: F ports included.

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For product information:  
[www.EmersonNetworkPower.com/Connectivity](http://www.EmersonNetworkPower.com/Connectivity)  
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VS06-VSWDS