

## Vertical 1GHz RF Splitters

### 2, 3, 4, 6, and 8 Way Splitters 5-1000MHz



### Product Description

Suttle's Vertical 1GHz RF Splitters are designed for use in any digital application and offers high quality as well as reliability. Blocking capacitors on the F-ports of each splitter ensures low intermodulation distortion figures that are essential when providing cable modem service. All splitters are stringently examined for quality to meet or exceed industry specifications.

### Specifications *(typical - limit)*

<b>Insertion Loss (Max dB)</b>	<b>2 Way</b>	<b>3 Way</b>	<b>3 Way Unbalanced</b>	<b>4 Way</b>	<b>6 Way</b>	<b>8 Way</b>
5-400 MHz -----	3.4 - 3.6	5.5 - 6.0	3.4/6.8 - 3.6/7.2	6.6 - 7.0	9.8 - 10	10.5 - 11
400-600 MHz -----	3.6 - 3.8	5.5 - 6.0	3.5/7.0 - 3.8/7.5	7.0 - 7.3	9.8 - 10	10.7 - 11
600-1000 MHz -----	4.0 - 4.2	6.5 - 7.0	3.7/7.5 - 3.9/7.9	7.6 - 8.0	11.5 - 11.8	11.6 - 12
<b>Isolation (Min dB)</b>	<b>2 Way</b>	<b>3 Way</b>	<b>3 Way Unbalanced</b>	<b>4 Way</b>	<b>6 Way</b>	<b>8 Way</b>
5-400 MHz -----	34 - 30	33 - 30	34 - 30	35 - 30	31 - 30	32 - 30
400-600 MHz -----	30 - 25	25 - 22	30 - 24	30 - 24	25 - 22	25 - 22
600-1000 MHz -----	28 - 25	25 - 22	25 - 22	25 - 22	25 - 22	25 - 20
<b>Return Loss In (Min dB)</b>	<b>2 Way</b>	<b>3 Way</b>	<b>3 Way Unbalanced</b>	<b>4 Way</b>	<b>6 Way</b>	<b>8 Way</b>
5-400 MHz -----	25 - 22	25 - 22	25 - 22	24 - 22	24 - 22	24 - 22
400-600 MHz -----	25 - 20	25 - 22	25 - 20	24 - 22	24 - 22	24 - 22
600-1000 MHz -----	25 - 20	25 - 20	25 - 20	24 - 20	23 - 20	24 - 20
<b>Return Loss Out (Min dB)</b>	<b>2 Way</b>	<b>3 Way</b>	<b>3 Way Unbalanced</b>	<b>4 Way</b>	<b>6 Way</b>	<b>8 Way</b>
5-400 MHz -----	25 - 22	25 - 22	25 - 22	25 - 22	25 - 22	25 - 22
400-600 MHz -----	25 - 20	25 - 22	25 - 20	25 - 22	25 - 22	25 - 22
600-1000 MHz -----	25 - 20	25 - 20	25 - 20	25 - 20	25 - 20	25 - 20
<b>RFI Shielding</b> -----	> -120dB					
<b>2nd Harmonics</b> -----	-45dBmV, measure with a 55dBmV return input carrier					
<b>Surge Withstanding</b> -----	6KV, 100kHz ring wave					



<b>Part #</b>	<b>Description</b>
V1S2	Vertical 2-way RF Splitter 5-1000MHz
V1S3	Vertical 3-way RF Splitter 5-1000MHz
V1S3-U	Vertical 3-way unbalanced RF Splitter 5-1000MHz
V1S4	Vertical 4-way RF Splitter 5-1000MHz
V1S6	Vertical 6-way RF Splitter 5-1000MHz
V1S8	Vertical 8-way RF Splitter 5-1000MHz

Specifications subject to change without notice. Copyright 2009. Revision: 02/09