

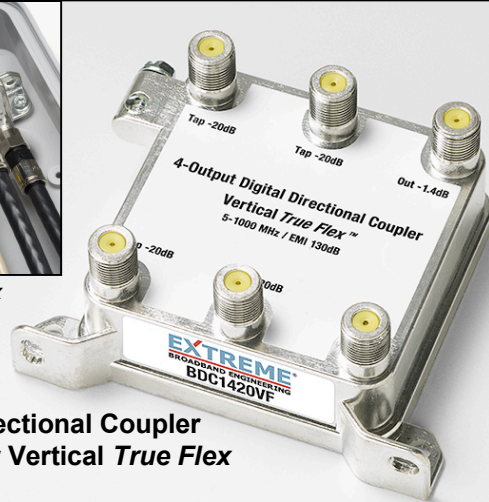
**Directional Couplers 4-Output Model BDC1400VF Series**

**Features**

- Excellent specifications in the return band
- 6kV ring wave surge protection on all ports
- Built to SCTE standards
- 1 GHz performance capabilities
- Machined F-Ports pressured sealed
- Zinc die cast housing and back cover
- Maximum corrosion protection
- Soldered back cover for -130 dB EMI shielding



Typical True Flex Housing



4-Output Directional Coupler Horizontal or Vertical True Flex Mounting

Model Number		Broadband Digital Directional Couplers - BDC1400VF Series									
Coupler Value		8	11	14	17	20	23	26	29	32	35
Specification	Frequency (MHz)	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min
<b>Insertion Loss (dB, Max)</b>											
	5-15		3.8	2.6	1.4	1.0	1.0	1.0	1.0	1.0	1.0
	16-40		3.6	2.4	1.2	0.8	0.8	0.8	0.8	0.8	0.8
	41-400		3.6	2.4	1.2	0.8	0.8	0.8	0.8	0.8	0.8
	401-550		3.8	2.6	1.6	1.2	1.0	1.0	1.0	1.0	1.0
	551-750		3.9	2.7	1.7	1.3	1.1	1.1	1.1	1.1	1.1
	751-1000		4.1	2.8	1.8	1.4	1.2	1.2	1.2	1.2	1.2
<b>Tap To Tap Isolation (dB, Min)</b>											
	5-15	20	20	20	20	20	20	20	20	20	20
	16-40	20	20	20	20	20	20	20	20	20	20
	41-400	25	25	25	25	25	25	25	25	25	25
	401-550	25	25	25	25	25	25	25	25	25	25
	551-750	24	24	24	24	24	24	24	24	24	24
	751-1000	22	22	22	22	22	22	22	22	22	22
<b>Output To Tap Isolation (dB, Min)</b>											
	5-15		22	22	25	30	36	39	42	45	48
	16-40		23	23	27	32	37	42	45	48	51
	41-400		25	30	30	30	35	37	40	42	44
	401-550		25	30	30	30	33	36	38	40	42
	551-750		23	23	23	26	30	33	35	37	39
	751-1000		22	22	22	22	25	28	31	33	35
<b>Return Loss (dB, Min)</b>											
	5-15	18	18	18	18	18	18	18	18	18	18
	16-40	20	20	20	20	20	20	20	20	20	20
	41-400	20	20	20	20	20	20	20	20	20	20
	401-550	18	18	18	18	18	18	18	18	18	18
	551-750	18	18	18	18	18	18	18	18	18	18
	751-1000	18	18	18	18	18	18	18	18	18	18
<b>Tap Loss Tolerance (±dB)</b>											
Nominal		7.5	11	14.5	17	20	23	26	29	32	35
	5-15	1	1	1	1	1	1	1	1	1	1.5
	16-40	1	1	1	1	1	1	1	1	1	1.5
	41-400	1	1	1	1	1	1	1	1	1	1.5
	401-550	1	1	1	1	1	1	1	1	1	1.5
	551-750	1	1	1	1	1	1	1	1	1	1.5
	751-1000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
<b>RFI</b>											
	5-1000	130	130	130	130	130	130	130	130	130	130
<b>Surge</b> 6KV Ring Wave Surge, IEEE C62.41 Cat. A3											
<b>2nd Harmonic</b> -60dBmV, measured with a +55dBmV return input carrier											

Specifications Compliant Throughout Operating Temperature Of -40°C to +60°C  
 Specifications Are Subject To Change Without Notice  
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