

Broadband Directional Couplers BDC1100H/V Series

Directional Couplers 1-Output BDC1100H/V 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 -130dB EMI shielding



BDC1100H/V Series
Vertical or Horizontal Style Housing

Specifications:

Model Number		Broadband Digital Directional Couplers - BDC1100H/V Series								
Coupler Value	Frequency	4	6	9	12	16	20	24	27	30
Specification	(MHz)	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min	Max/Min
Insertion Loss (dB, Max)										
	5-15	3.7	2.1	1.4	1.0	0.8	0.6	0.6	0.6	0.6
	16-40	3.7	2.1	1.4	1.0	0.8	0.6	0.6	0.6	0.6
	41-400	3.7	2.1	1.4	1.0	0.8	0.8	0.8	0.8	0.8
	401-550	3.7	2.1	1.4	1.0	0.8	0.8	0.8	0.8	0.8
	551-750	4.0	2.5	1.9	1.4	1.0	1.0	1.0	1.0	1.0
	751-1000	4.0	2.5	1.9	1.4	1.4	1.3	1.3	1.3	1.3
Isolation (dB, Min)										
	5-15	20	20	20	20	30	33	35	38	41
	16-40	30	35	35	35	35	33	36	40	45
	41-400	20	20	20	20	30	30	32	35	37
	401-550	20	20	20	20	28	30	30	32	35
	551-750	20	20	20	20	26	28	30	30	33
	751-1000	20	20	20	20	24	26	28	30	32
Return Loss (dB, Min)										
	5-15	20	18	18	18	18	18	18	18	18
	16-40	21	19	19	20	20	20	20	20	20
	41-400	21	19	19	20	20	20	20	20	20
	401-550	21	19	19	18	18	18	18	18	18
	551-750	20	18	18	18	18	18	18	18	18
	751-1000	18	18	18	18	18	18	18	18	18
Tap Loss Tolerance (±dB)										
Nominal		4.0	6.5	9.0	12.0	16.0	20.0	24.0	27.0	30.0
	5-15	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	16-40	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	41-400	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	401-550	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	551-750	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	751-1000	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5
RFI										
	5-1000	130	130	130	130	130	130	130	130	130
Surge	6KV Ring Wave Surge, IEEE C62.41 Cat. A3									
2nd Harmonic	-60dBmV, measured with a +55dBmV return input carrier									

Specifications Compliant Throughout Operating Temperature Of -40°C to +60°C