

## Directional Coupler

### DCWG SB SERIES COUPLERS

#### Description:

The DCWG 1.2 GHz Series of high quality directional couplers have been developed to meet the rigorous requirements of MDU distribution. The solder-back design, high return loss and low insertion loss make the DCWG-SB Series ideal for any RF distribution application. Advanced PCB design assures consistent performance. The available tap values for the DCWG-SB series include: 4, 6, 9, 12, 16, 20, 24, 27, 30 dB.



#### Features & Benefits:

- Solder Back Construction
- Wide 5 - 1218 MHz Frequency Range
- Nine standard dB Values Available
- 130 dB RFI Shielding
- High Return Path Isolation
- High Return Loss
- Precision Machined Threads

#### Applications:

Homes, MDU's and businesses

These couplers manage RF distribution over varied COAX run lengths with varied power requirements.

## Additional Info:

### DCWG SB Series Directional Couplers

#### SPECIFICATIONS:

DCWG-**(SB)	4dB	6dB	9dB	12dB	16dB	20dB	24dB	27dB	30dB	
Description	Frequency Range (MHz)	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	
TAP LOSS (dB)										
	5-1218	4.0±0.9	6.0±1.5	9±1.5	12±1.5	16±1.5	20±1.5	24±1.5	27±1.5	30±1.5
INSERTION LOSS (Max dB)										
	5-50	3.6	1.8	1.4	1.0	0.8	0.8	0.7	0.5	0.5
	51-500	3.7	2.1	1.5	1.2	0.9	0.9	0.8	0.6	0.6
	501-750	3.8	2.2	1.8	1.2	0.9	0.9	0.8	0.7	0.7
	751-1000	4.2	2.6	2.1	1.7	1.5	1.4	1.2	1.0	1.0
	1001-1218	4.2	2.6	2.1	1.7	1.5	1.4	1.2	1.2	1.2
ISOLATION (OUT-TAP) (Min dB)										
	5-50	23	24	27	30	34	38	38	38	38
	51-500	23	24	27	30	34	38	38	38	38
	501-750	22	24	27	30	34	38	38	38	38
	751-1000	20	24	27	30	34	38	38	38	38
	1001-1218	20	24	27	30	34	38	38	38	38
RETURN LOSS IN (Min dB)										
	5-50	18	16	16	18	18	18	18	18	18
	51-500	18	16	16	18	18	18	18	18	18
	501-750	18	16	16	18	18	18	18	18	18
	751-1000	18	16	16	18	18	18	18	18	18
	1001-1218	18	16	16	18	18	18	18	18	18
RETURN LOSS OUT (Min dB)										
	5-50	18	16	16	18	18	18	18	18	18
	51-500	18	16	16	18	18	18	18	18	18
	501-750	18	16	16	18	18	18	18	18	18
	751-1000	18	16	16	18	18	18	18	18	18
	1001-1218	18	16	16	18	18	18	18	18	18
RETURN LOSS TAP (Min dB)										
	5-50	18	16	16	18	18	18	18	18	18
	51-500	18	16	16	18	18	18	18	18	18
	501-750	18	16	16	18	18	18	18	18	18
	751-1000	18	16	16	18	18	18	18	18	18
	1001-1218	18	16	16	18	18	18	18	18	18