

Directional Coupler DCWG-SB Series Couplers

The DCWG 1.0 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.



DCWG-SB Series Couplers

Features:

- Solder Back Construction
- 5 - 1000 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.

Specifications:
DCWG-SB Series Directional Couplers

DCWG-xxSB		4dB	6dB	9dB	12dB	16dB	20dB	24dB	27dB	30dB
Description	Frequency Range (MHz)	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit	Limit
TAP LOSS (dB)										
	5-1000	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	0.7	0.7
	51-500	3.7	2.1	1.5	1.2	0.9	0.9	0.8	0.8	0.8
	501-750	3.8	2.2	1.8	1.2	0.9	0.9	0.8	0.8	0.8
	751-1000	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	40	40
	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
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
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
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