

DCG-*SB SERIES DIRECTIONAL COUPLERS

MODELS DCG-*SB : DCWG-*SB : DCG2-*SB : DCG4-*SB



MODEL DCG-*SB



MODEL DCWG-*SB



MODEL DCG2-*SB



MODEL DCG4-*SB

FEATURES

- **1 GHz Bandwidth**
- **130 dB RFI Shielding** (*Solder-Back*)
- **High Up-Stream Isolation** (*Tap-Out*)
- **High Return Loss**
- **Precision Machined Threads**

HIGH-PERFORMANCE DIRECTIONAL COUPLERS

The DCG-SB Series of high quality directional couplers have been developed to meet the rigorous requirements of MDU distribution. High return loss and low insertion loss make the DCG-SB Series ideal for any application. Advanced PCB design assures consistent performance.



NOTE: *Holland Electronics also offers DCG-* models with an economically-designed epoxy sealed cover.*

DCG-*SB SPECIFICATIONS

1-PORT MODELS (DCG-*SB)

* TAP VALUE	6	9	12	16	20	24	27	30
Insertion Loss (dB) (Max) (In - Out)								
5 - 47	2	1.5	1	.8	.8	.7	.7	.7
48 - 450	2	1.5	1	.8	.8	.6	.6	.6
451 - 750	2.3	1.6	1.3	1	1	.8	.8	.8
751 - 1000	2.5	2	1.5	1.2	1.2	1	1	1
Isolation (dB) (Out - Tap)								
5 - 47	25	30	30	35	40	40	40	41
48 - 450	25	25	28	30	35	40	40	40
451 - 750	22	24	25	28	30	35	35	40
751 - 1000	22	22	22	23	25	30	35	36

2-PORT MODELS (-*SB)

* TAP VALUE	9	12	16	20	24	27	30	
Insertion Loss (dB) (Max) (In - Out)								
5 - 47	3.5	1.9	1.5	.7	.7	.7	.7	-
48 - 450	3.4	1.5	1.3	.6	.6	.6	.6	-
451 - 750	3.6	2	1.5	.8	.8	.8	.8	-
751 - 1000	4	2.2	1.7	1	1	1	1	
Isolation (dB) (Out - Tap)								
5 - 47	25	35	35	40	45	45	45	-
48 - 450	25	25	30	35	40	40	40	-
451 - 750	22	24	28	30	35	35	35	-
751 - 1000	22	22	23	27	30	30	30	-

4-PORT MODELS (DCG4-*SB)

* TAP VALUE	8	12	16	20	24	30		
Insertion Loss (dB) (Max) (In - Out)								
5 - 47	Self Term.	3.7	1.4	.9	.9	.9	-	-
48 - 450	Self Term.	3.9	1.3	.8	.8	.8	-	-
451 - 750	Self Term.	4	1.7	.9	.9	.9	-	-
751 - 1000	Self Term.	4.1	1.9	1.1	1.1	1.1	-	-
Isolation (dB) (Out - Tap)								
5 - 47	Self Term.	27	30	32	40	45	-	-
48 - 450	Self Term.	27	28	30	35	40	-	-
451 - 750	Self Term.	22	26	28	30	37	-	-
751 - 1000	Self Term.	21	23	25	29	34	-	-

GENERAL	5 - 47 MHz	48 - 450 MHz	451 - 750 MHz	751 - 1000 MHz
Input Return Loss (dB) (Min)	18	20	20	18
Output Return Loss (dB) (Min)	18	20	20	18
Tap Return Loss (dB) (Min)	20	20	20	20

NOTE: All specifications typical unless otherwise noted