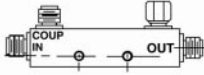




# Coaxial Components

## DIRECTIONAL COUPLERS

Design: Stripline  
 RF Power: 50 W att average  
 3 KW peak  
 Standard Coupling: 10, 20, and 30dB  
 Coupling Flatness: + 1.0 dB full band  
 RF Connectors: SMA and T type N.



OCTAVE BAND MODELS

Freq (GHz)	VSWR Thru	VSWR Coup	Directivity (dB min)	I. L. (dB)	Model No. (SMA)	Model No. (Type N)
0.5-1.0	1.10	1.10	25	0.2	DC1-0.5*	DCN1-0.5*
1 - 2	1.10	1.10	25	0.2	DC2-1*	DCN2-1*
2 - 4	1.15	1.15	22	0.2	DC4-2*	DCN4-2*
2.6-5.2	1.25	1.25	20	0.2	DC5.2-2.6*	DCN5.2-2.6*
4 - 8	1.25	1.25	20	0.25	DC8-4*	DCN8-4*
7-12.4	1.30	1.30	17	0.3	DC12.4-7*	DCN12.4-7*
7.5-16	1.35	1.40	15	0.5	DC16-7.5*	DCN16-7.5*
12.4-18	1.30	1.40	15	0.5	DC18-12.4*	DCN18-12.4*

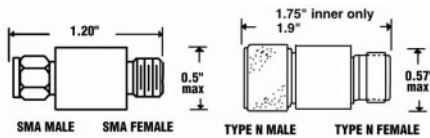
MULTIBAND MODELS

Freq (GHz)	VSWR Thru	VSWR Coup	Directivity (dB min)	I. L. (dB)	Model No. (SMA)	Model No. (Type N)
0.5-2.0	1.20	1.20	23	0.4	DM2-0.5*	DMN2-0.5*
1 - 4	1.20	1.20	23	0.4	DM4-1*	DMN4-1*
2 - 8	1.25	1.25	20	0.4	DM8-2*	DMN8-2*
4-12.4	1.25	1.25	17	0.5	DM12.4-4*	DMN12.4-4*
7 - 18	1.35	1.35	15	0.7	DM18-7*	DMN18-7*
1 - 18	1.40	1.50	15	0.9	DM18-1*	DMN18-1*

\* Add coupling in dB. Example DC2-1-20 † Insertion loss excludes coupling loss  
 \*\* Type N models are spec .05 higher in VSWR than SMA models

## DC BLOCKS

Inner, Outer, Inner/Outer



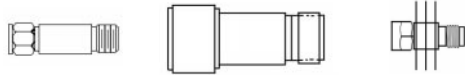
### Specifications

Freq. Rge: 10 MHz - 18 GHz  
 VSWR: 1.35 max  
 Blocking Volt: 200 volts  
 Ins. Loss: 0.5 dB max  
 Inner/Outer

Outer Only      Inner Only  
 Input      Output      Input      Output      Input      Output

Block Type	SMA Model	Type N Model
Outer Block:	DCB120H	DCBN150H
Inner Block:	DCB220H	DCBN250H
Outer/Inner Block:	DCB320H	DCBN350H

## FIXED ATTENUATORS



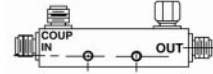
Standard Values are 3, 6, 10 and 20dB  
 Other Values, 1 thru 30dB, are available

Freq Rge (GHz)	RF Power (CW)	VSWR (max)	Model No. (SMA M/F)	Model No. (Type N M/F)
DC-6.5	2	1.2	FA6.5	FAN6.5
DC-12.4	2	1.25	FA12.4	FAN12.4
DC-18.0	2	1.35	FA18.0	FAN18.0
DC-26.0	2	1.40	*FA26.0	N/A
DC-40.0	2	1.4	*FA40.0	N/A
DC-6.5	5	1.2	FA6.5	FAN6.5
DC-18.0	5	1.35	FA18.0	FAN18.0
DC-6.5	10	1.25	FA6.5	FAN6.5
DC-18.0	10	1.40	FA18.0	FAN18.0
DC-6.5	25	1.20	FA6.5	FAN6.5
DC-18.0	25	1.4	FA18.0	FAN18.0
DC-6.5	50	1.3	FA6.5	FAN6.5
DC-18.0	50	1.45	FA18.0	FAN18.0

\*Unit available with 2.9mm connector only.

## HIGH POWER DIRECTIONAL COUPLERS

Design: Stripline  
 RF Power: 200 W att average  
 3 KW peak  
 Standard Coupling: 10, 20, and 30dB  
 Coupling Flatness: + 1.0 dB full band  
 RF Connectors: SMA and Type N.



OCTAVE BAND MODELS

Freq (GHz)	VSWR Thru	VSWR Coup	Directivity (dB min)	I. L. (dB)	Model No. (SMA)	Model No. (Type N)
0.5-1.0	1.10	1.10	25	0.2	HPD1-0.5*	HPDN1-0.5*
1 - 2	1.10	1.10	25	0.2	HPD2-1*	HPDN2-1*
2 - 4	1.15	1.15	22	0.2	HPD4-2*	HPDN4-2*
2.6-5.2	1.25	1.25	20	0.2	HPD5-2*	HPDN5-2*
4 - 8	1.25	1.25	20	0.25	HPD8-4*	HPDN8-4*

\* Add coupling in dB. Example HPD2-1 † Insertion loss excludes coupling loss  
 \*\* Type N models are spec .05 higher in VSWR than SMA models

## DUAL DIRECTIONAL COUPLERS

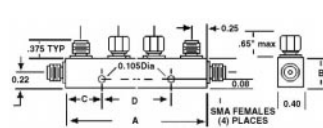
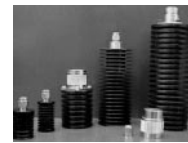


FIG	A	B	C	D
1	6.30	0.50	0.80	4.70
2	6.30	0.55	0.80	4.70
3	3.68	0.50	0.42	2.82
4	3.68	0.55	0.42	2.82
5	2.42	0.50	0.41	1.60
6	2.42	0.55	0.41	1.60
7	2.10	0.50	0.50	1.10
8	2.10	0.55	0.50	1.10
9	2.10	0.60	0.50	1.10

Model No.	Freq. Rge GHz	Coupling ± 0.5 (dB)	Freq. Sens. ± (dB)	Ins. Loss (dB) max.*	Directivity (dB) min.	VSWR max Main	VSWR max Sec.	FIG
DDC1-10		10						1
DDC1-20	0.5-1.0	20	0.75	0.20	22	1.15	1.10	1
DDC1-30		30						2
DDC2-10		10						3
DDC2-20	1.0-2.0	20	0.75	0.25	22	1.15	1.10	3
DDC2-30		30						4
DDC4-10		10		0.40				5
DDC4-20	2.0-4.0	20	0.75	0.30	20	1.20	1.15	5
DDC4-30		30		0.30				6
DDC5-10		10						7
DDC5-20	2.6-5.2	20	0.75	0.20	18	1.35	1.25	7
DDC5-30		30						8
DDC8-10		10						7
DDC8-20	4.0-8.0	20	0.75	0.25	18	1.35	1.25	7
DDC8-30		30						8
DDC12-10		10		0.40				7
DDC12-20	7.0-12.4	20	0.50	0.30	16	1.35	1.30	7
DDC12-30		30		0.30				8
DDC16-10		10		0.60				7
DDC16-20	8.0-16.0	20	0.75	0.50	15	1.40	1.40	9
DDC16-30		30		0.50				9
DDC18-20	12.4-18.0	20	0.60	0.50	15	1.40	1.40	9
DDC18-30		30		0.50				9

\* Excluding Coupled Loss Power

## COAXIAL TERMINATIONS



Freq. (GHz)	RF Power (watts)	VSWR (max)	Model No. (SMA-m)	Model No. (Type N-m)
DC-18.0	1	1.15	CT1-18	N/A
DC-18.0	2	1.25	CT2-18	CTN2-18
DC-40.0	2	1.20	*CT2-40	N/A
DC-8.0	5	1.20	CT5-8	CTN5-8
DC-18.0	5	1.25	CT5-18	CTN5-18
DC-8.0	10	1.20	CT10-8	CTN10-8
DC-18.0	10	1.35	CT10-18	CTN10-18
DC-8.0	25	1.20	CT25-8	CTN25-8
DC-18.0	25	1.35	CT25-18	CTN25-18
DC-8.0	50	1.25	CT50-8	CTN50-8
DC-18.0	50	1.25	CT50-18	CTN50-18
DC-8.0	100	1.35	CT100-8	CTN100-8

\*Unit available with 2.9mm connector only .

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