

DIRECTIONAL COUPLERS

Design: Stripline

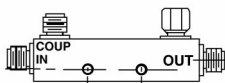
RF Power: 50 Watt average

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	Max**	Thru	Coupling	Directivity (dB min)	I. L.† (dB)	Model No. (SMA)	Model No. (Type N)
0.5-1.0	1.10	1.10			25	0.2	C112-*	C212-*
1 - 2	1.10	1.10			25	0.2	C113-*	C213-*
2 - 4	1.15	1.15			22	0.2	C114-*	C214-*
2.6-5.2	1.25	1.25			20	0.2	C114F-*	C214F-*
4 - 8	1.25	1.25			20	0.25	C115-*	C215-*
7 -12.4	1.30	1.30			17	0.3	C116-*	C216-*
7.5-16	1.35	1.40			15	0.5	C116H-*	C216H-*
12.4-18	1.30	1.40			15	0.5	C117-*	C217-*

MULTIBAND MODELS

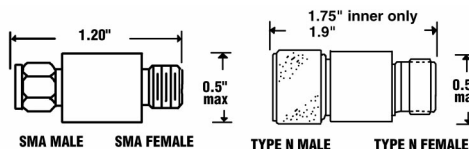
0.5-2.0	1.20	1.20			23	0.4	C122D-*	C222D-*
1 - 4	1.20	1.20			23	0.4	C123E-*	C223E-*
2 - 8	1.25	1.25			20	0.4	C124F-*	C224F-*
4-12.4	1.25	1.25			17	0.5	C125G-*	C225G-*
7 - 18	1.35	1.35			15	0.7	C126H-*	C226H-*
1 - 18	1.40	1.50			15	0.9	C123H-*	C223H-*

* Add coupling in dB. Example C115-20. † Insertion loss excludes coupling loss

** Type N models are spec .05 higher in VSWR than SMA models

DC BLOCKS

Inner, Outer, Inner/Outer



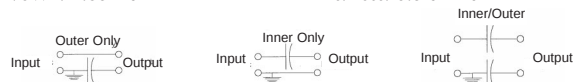
Specifications

Freq. Rge: 10 MHz - 18 GHz

VSWR: 1.35 max

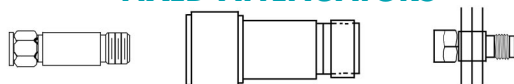
Blocking Volt: 200 volts

Ins. Loss: 0.5 dB max



Block Type	SMA Model	Type N Model
Outer Block:	P/N B120H	P/N B150H
Inner Block:	P/N B220H	P/N B250H
Outer/Inner Block:	P/N B320H	P/N B350H

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	2105-dB	2205-dB
DC-12.4	2	1.25	2106-dB	2206-dB
DC-18.0	2	1.35	2107-dB	2207-dB
DC-26.0	2	1.40	2108-dB*	N/A
DC-40.0	2	1.4	2109-dB*	N/A
DC-6.5	5	1.2	0515-dB	0525-dB
DC-18.0	5	1.35	0517-dB	0527-dB
DC-6.5	10	1.25	1015-dB	1025-dB
DC-18.0	10	1.40	1017-dB	1027-dB
DC-6.5	25	1.20	2515-dB	2525-dB
DC-18.0	25	1.4	2517-dB	2527-dB
DC-6.5	50	1.3	5015-dB	5025-dB
DC-18.0	50	1.45	5017-dB	5027-dB

*Unit available with 2.9mm connector only.

HIGH POWER DIRECTIONAL COUPLERS

Design: Stripline

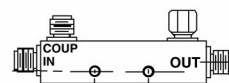
RF Power: 200 Watt average

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	Max**	Thru	Coupling	Directivity (dB min)	I. L.† (dB)	Model No. (SMA)	Model No. (Type N)
0.5-1.0	1.10	1.10			25	0.2	CH112-*	CH212-*
1 - 2	1.10	1.10			25	0.2	CH113-*	CH213-*
2 - 4	1.15	1.15			22	0.2	CH114-*	CH214-*
2.6-5.2	1.25	1.25			20	0.2	CH114F-*	CH214F-*
4 - 8	1.25	1.25			20	0.25	CH115-*	CH215-*

* Add coupling in dB. Example CH115-20. † Insertion loss excludes coupling loss

** Type N models are spec .05 higher in VSWR than SMA models

DUAL DIRECTIONAL COUPLERS

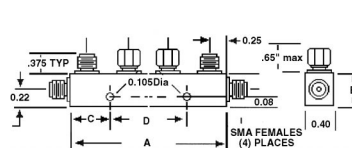


FIG	A	B	C	D
1	6.30	0.50	0.80	4.70
2	6.30	0.55	0.80	4.70
3	3.68	0.50	0.42	2.82
4	3.68	0.55	0.42	2.82
5	2.42	0.50	0.41	1.60
6	2.42	0.55	0.41	1.60
7	2.10	0.50	0.50	1.10
8	2.10	0.55	0.50	1.10
9	2.10	0.60	0.50	1.10

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
C132-10		10						1
C132-20	0.5-1.0	20	0.75	0.20	22	1.15	1.10	1
C132-30		30						2
C133-10		10						3
C133-20	1.0-2.0	20	0.75	0.25	22	1.15	1.10	3
C133-30		30						4
C134-10		10		0.40				5
C134-20	2.0-4.0	20	0.75	0.30	20	1.20	1.15	5
C134-30		30		0.30				6
C134F-10		10						7
C134F-20	2.6-5.2	20	0.75	0.20	18	1.35	1.25	7
C134F-30		30						8
C135-10		10						7
C135-20	4.0-8.0	20	0.75	0.25	18	1.35	1.25	7
C135-30		30						8
C136-10		10		0.40				7
C136-20	7.0-12.4	20	0.50	0.30	16	1.35	1.30	7
C136-30		30		0.30				8
C136H-10		10		0.60				7
C136H-20	8.0-16.0	20	0.75	0.50	15	1.40	1.40	9
C136H-30		30		0.50				9
C137-20	12.4-18.0	20	0.60	0.50	15	1.40	1.40	9
C137-30		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	T0117	N/A
DC-18.0	2	1.25	T0217	T0227
DC-40.0	2	1.20	T02K9*	N/A
DC-8.0	5	1.20	T0515	T0525
DC-18.0	5	1.25	T0517	T0527
DC-8.0	10	1.20	T1015	T1025
DC-18.0	10	1.35	T1017	T1027
DC-8.0	25	1.20	T2515	T2525
DC-18.0	25	1.35	T2517	T2527
DC-8.0	50	1.25	T5015	T5025
DC-18.0	50	1.25	T5017	T5027
DC-8.0	100	1.35	T10015	T10025

*Unit available with 2.9mm connector only.