Directional Detectors
Octave and Broadband

RLC Electronics' Directional Detectors have been redesigned to integrate the detector into the coupler housing. Integration results in smaller size and more rugged construction with no performance penalties. Directional Detectors combine the high directivity, low insertion loss, low VSWR, and low frequency sensitivity of RLC's stripline couplers with the flat frequency response and high sensitivity of RLC's miniature Schottky detectors.

Specifications

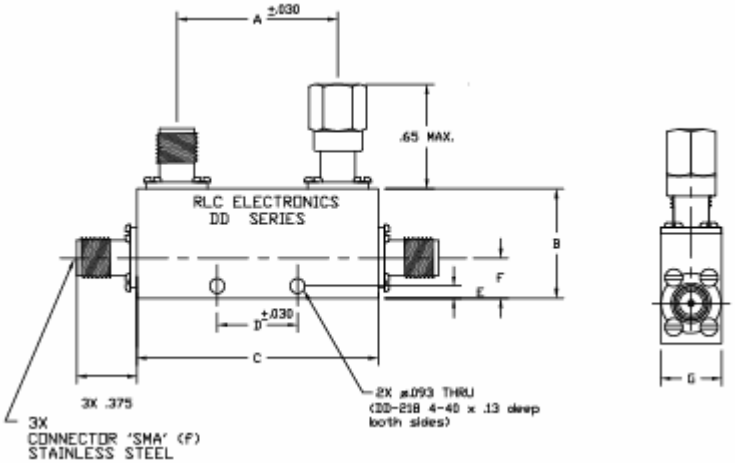
DD-[1]

Model Number (1)	Frequency Range (GHz)	Directivity Min. (dB)	VSWR (Max.)	Frequency Deviation (dB)	Insertion Loss Max. (dB)
DD-0250	0.25-0.50	25	1.15	+/- 0.90	0.25
DD-0510	0.50-1.00	25	1.15	+/- 0.90	0.25
DD-1020	1.00-2.00	25	1.15	+/- 0.90	0.25
DD-1530	1.50-3.00	20	1.20	+/- 0.90	0.30
DD-2040	2.00-4.00	20	1.25	+/- 0.90	0.30
DD-3060	3.00-6.00	20	1.25	+/- 0.90	0.40
DD-4080	4.00-8.00	18	1.30	+/- 0.90	0.45
DD-0812	8.00-12.40	16	1.35	+/- 0.70	0.45
DD-12180	12.00-18.00	15	1.35	+/- 0.70	0.65
DD-218	2.00-18.00	12	1.40	+/- 0.90	0.70

Input Power: 10 Watts Max.
Video Resistance: 5000 ohms nominal
Sensitivity: 4uV/uW Min.

Connectors: SMA female (In, Out, & Detected)
Temperature Range:-55 C to +100 C

Model No.	A	B	C	D	E	F	G
DD-0205	1.50	2.00	2.13	1.97	1.75	.31	.38
DD-0510	2.64	.75	3.14	2.98	.50	.25	.38
DD-1020	1.32	.75	1.83	1.67	.50	.25	.38
DD-1530	.96	.75	1.47	1.31	.50	.25	.38
DD-2040	.66	.75	1.17	1.01	.50	.25	.38
DD-3060	.50	.75	1.00	.84	.50	.25	.38
DD-4080	.50	.75	1.00	.84	.50	.25	.38
DD-0812	.50	.75	1.00	.84	.50	.25	.38
DD-12180	.50	.75	1.00	.84	.50	.25	.38
DD-218	1.63	.86	2.12	1.12	.44	.39	.53



Specifications subject to change without notification.

Tolerances unless otherwise specified are .xx +/- .02, xxx +/- .005

Specials requiring closer tolerances, different frequency ranges, special connectors different materials, finishes, etc. can be furnished upon request.

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