Directional Coupler, CC-xx series

Low Loss Stripline Coupler
575 - 2,700 MHz, N-type & 4.3-10
Rev. E

- Standard bandwidth for commercial wireless signal distribution applications
- Flat response from 575 to 2700 MHz
- Guaranteed Low PIM
- 300 Watt Average Power
- Available in N-type & 4.3-10
- RoHS Compliant

Model CC-06E

The CC-xx series of directional coupler is a tapered stripline design covering from 575 to 2,700 MHz. The units couple off a defined fraction of signal with high directivity and minimal loss. Availability in a wide range of coupling values makes this series useful in optimizing the signal distribution required in a passive distributor radio access network(D-RAN).

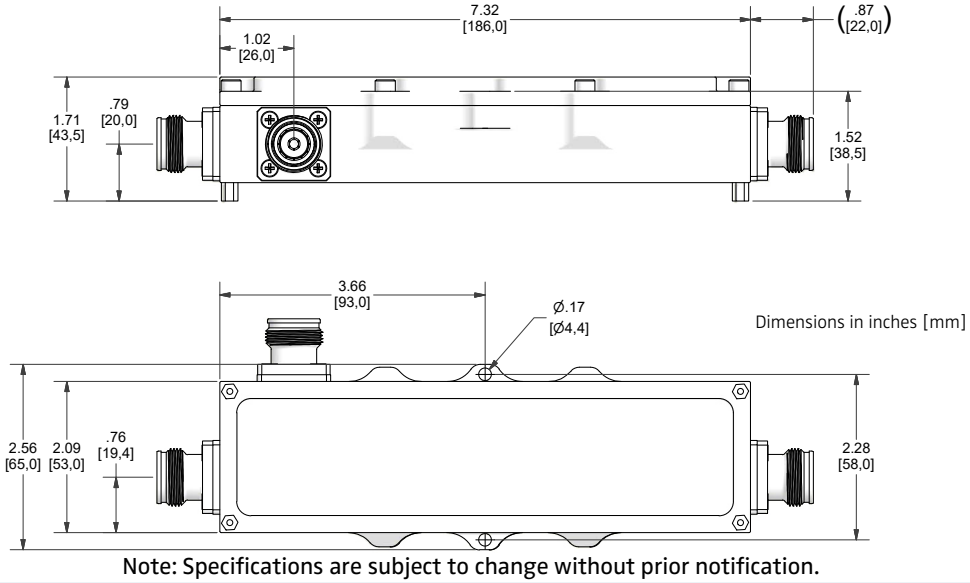
The wide frequency range enables applications with multiband antennas, leaky cable systems, and wireless base stations. With minimal solder joints and a low loss dielectric, the dissipative loss has been minimized and reliability enhanced.

4.3-10 Parts	N-type Parts	Coupling nom.	Coupled Loss max.
CC-05E	CC-05N	5 dB	1.65 dB
CC-06E	CC-06N	6 dB	1.25 dB
CC-07E	CC-07N	7 dB	0.97 dB
CC-08E	CC-08N	8 dB	0.84 dB
CC-10E	CC-10N	10 dB	0.45 dB
CC-13E	CC-13N	13 dB	0.22 dB
CC-15E	CC-15N	15 dB	0.14 dB
CC-20E	CC-20N	20 dB	0.04 dB
CC-30E	CC-30N	30 dB	0.01 dB

Frequency:	575 to 2,700 MHz
VSWR:	1.25:1 max., all ports
PIM:	-161 dBc (-118 dBm) min.
	(Test with 2x 1900MHz, +43 dBm tones @ ambient)
Power:	300 W avg., 1 kW pk*
Dissipative Loss:	0.25 dB max.
Sentitivity:	±0.8 dB
Directivity:	20 dB min.
Impedance:	50Ω nom.
Environment:	-35°C to +75°C, IP67
Housing Finish:	Gray paint
Connectors:	4-hole flange, N-type(f)/4.3-10(f)Triplate
Dimensions:	7.32 x 2.56 x 1.71 in
	[186 x 65 x 43.5 mm]
Weight, nom:	1.6 lb, (0.73 kg)

*Power may be limited by feeding into poorly matched loads overloading the termination.

CC-xxE & CC-xxN Outline



Note: Specifications are subject to change without prior notification.

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