

\$ Saver Product Line

- ◆ Ultra wide-band, multi-section design
- ◆ Flat response 694 to 2700 MHz
- ◆ Minimal RF Insertion Loss
- ◆ Available in N-type, 7-16 DIN, and 4.1-9.5 DIN ('Mini-DIN') Connectors
- ◆ Rugged, High Reliability, RoHS
- ◆ Low Passive Intermodulation (PIM)
- ◆ 300 Watt Average Main Line Power



Model CP-18N

The CP-10 series of Directional Couplers is a tapered stripline design covering from 694 to 2,700 MHz. Units couple off a defined fraction of signal with minimal reflections or loss. Availability in a wide range of coupling values makes this series useful in optimizing the power distribution required in passive in-building distributed antenna systems (DAS).

The extremely wide frequency range allows use with multi-band antennas and 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.

For 380 to 5850 MHz band requirements see Microlab DN series of Tappers, which offer alternate benefits for many in-building applications.

Frequency:	694 to 2,700 MHz
VSWR, all ports:	1.25:1 max.
Intermod., PIM:	<-150 dBc, (2 x +43 dBm @1850 MHz) <-153 dBc, typical
Power Rating:	300 W avg., 1 kW pk*
Impedance:	50Ω nominal
Environment:	-35°C to +85°C, IP65
Housing Finish:	Black paint
Connectors:	7-16 DIN (f), 4.1-9.5 DIN (f) or N-Type (f) Triplate
Weight (typ):	
N-Type:	11 oz (0.30 kg)
7-16 DIN:	26 oz (0.75 kg)
4.1-9.5 DIN	19 oz (0.54 kg)

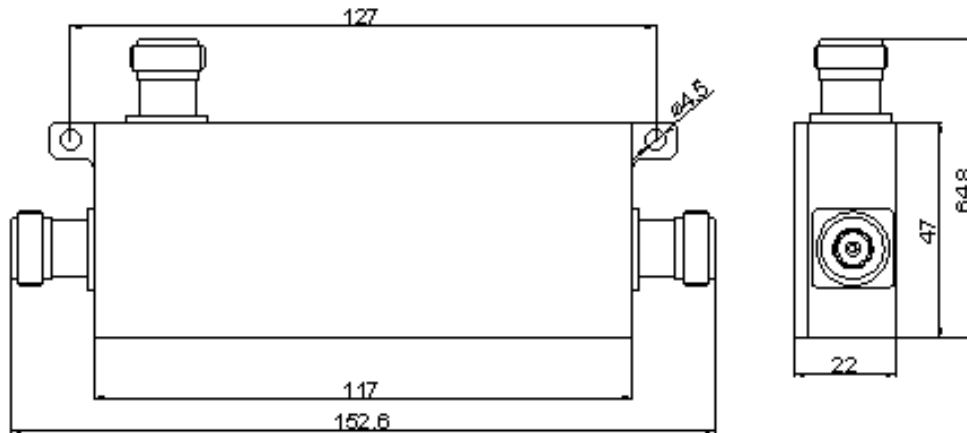
*Power may be limited by feeding into poorly matched loads overloading the termination.

7-16 DIN	Part Number		Coupling nom.	Frequency Sensitivity	Directivity typical	Coupled Loss	Dissipative Loss, dB
	N conn	4.1-9.5 DIN					
CP-11D	CP-11N	CP-11C	5 dB	±1.0 dB	>20 dB	1.65 dB	<0.25
CP-16D	CP-16N	CP-16C	6 dB	±1.0 dB	>20 dB	1.25 dB	<0.25
CP-12D	CP-12N	CP-12C	7 dB	±1.0 dB	>20 dB	0.97 dB	<0.25
CP-17D	CP-17N	CP-17C	10 dB	±1.0 dB	>20 dB	0.45 dB	<0.25
CP-15D	CP-15N	CP-15C	15 dB	±1.0 dB	>20 dB	0.14 dB	<0.25
CP-18D	CP-18N	CP-18C	20 dB	±1.0 dB	>20 dB	0.04 dB	<0.25
*CP-19D	*CP-19N	*CP-19C	30 dB	±1.0 dB	>20 dB	0.01 dB	<0.25

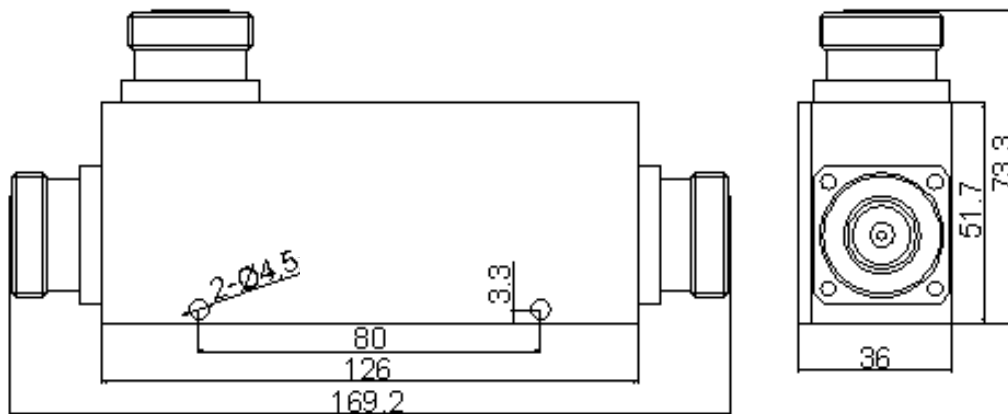
*Models in development

Note: Specifications are subject to change without prior notification.

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Microlab Model CP-10N and CP-10C Series

Dimensions in mm.

Microlab Model CP-10D Series

Dimensions in mm.