

### \$ Saver Product Line

- ◆ Ultra wide-band, multi-section design
- ◆ Flat response 694 to 2700 MHz
- ◆ Minimal RF Insertion Loss
- ◆ 4.3-10 Connectors
- ◆ Rugged, High Reliability, RoHS
- ◆ Low Passive Intermodulation (PIM)
- ◆ 300 Watt Average Main Line Power



Similar Model CP-18N shown

The CP-10E 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.

Units also available with N-type, 7-16 DIN and 4.1-9.5 DIN connectors as CP-10 series.

Frequency:	694 to 2,700 MHz
VSWR, all ports:	1.25:1 max.
Intermod., PIM:	<-155 dBc using two +43 dBm tones
Power Rating:	300 W avg
Impedance:	50Ω nominal
Environment:	-35°C to +85°C, IP65
Housing Finish:	Black paint
Connectors:	4.3-10 (f) Triplate
Weight (typ):	20 oz (0.55 kg)

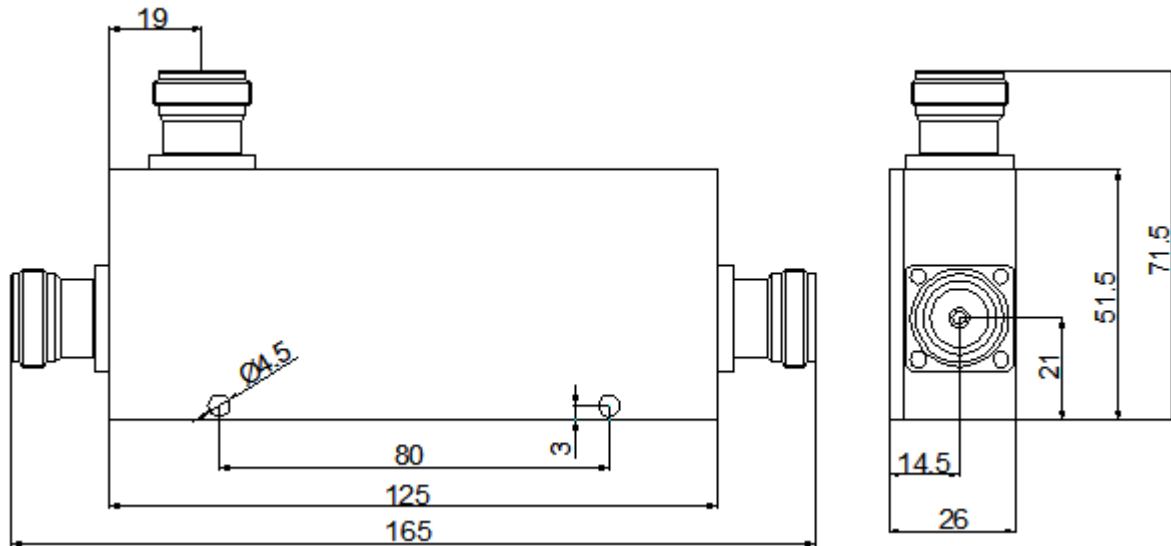
\*Power may be limited by feeding into poorly matched loads overloading the termination.

Model Number/Conn 4.3-10 (f)	Coupling nom.	Frequency Sensitivity	Directivity typical	Insertion* Loss	Maximum Reflected Power	Body Style
CP-11E	5 dB	± 1.0 dB	> 20 dB	2.3 dB	35 W	A
CP-16E	6 dB	± 1.0 dB	> 20 dB	1.7 dB	40 W	A
CP-12E	7 dB	± 1.0 dB	> 20 dB	1.5 dB	50 W	A
CP-17E	10 dB	± 1.0 dB	> 20 dB	0.8 dB	100 W	B
CP-15E	15 dB	± 1.0 dB	> 20 dB	0.4 dB	200 W	B
CP-18E	20 dB	± 1.0 dB	> 20 dB	0.22 dB	200 W	B
CP-19E	30 dB	± 1.2 dB	> 20 dB	0.2 dB	200 W	B

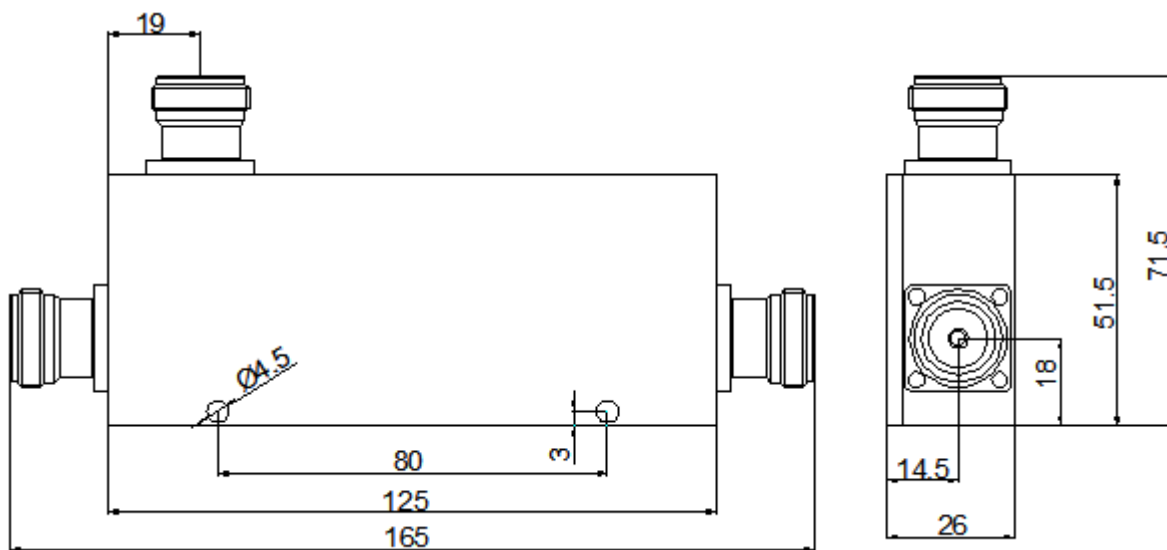
\* Insertion loss is a sum of coupling loss, dissipative loss and loss due to isolation and reflection.

Note: Specifications are subject to change without prior notification.

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**Microlab Series CP-10E (5, 6, 7 dB) - Outline A**


Dimensions in mm.

**Microlab Series CP-10E (10, 15, 20, 30 dB) - Outline B**


Dimensions in mm.