

\$ 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) |

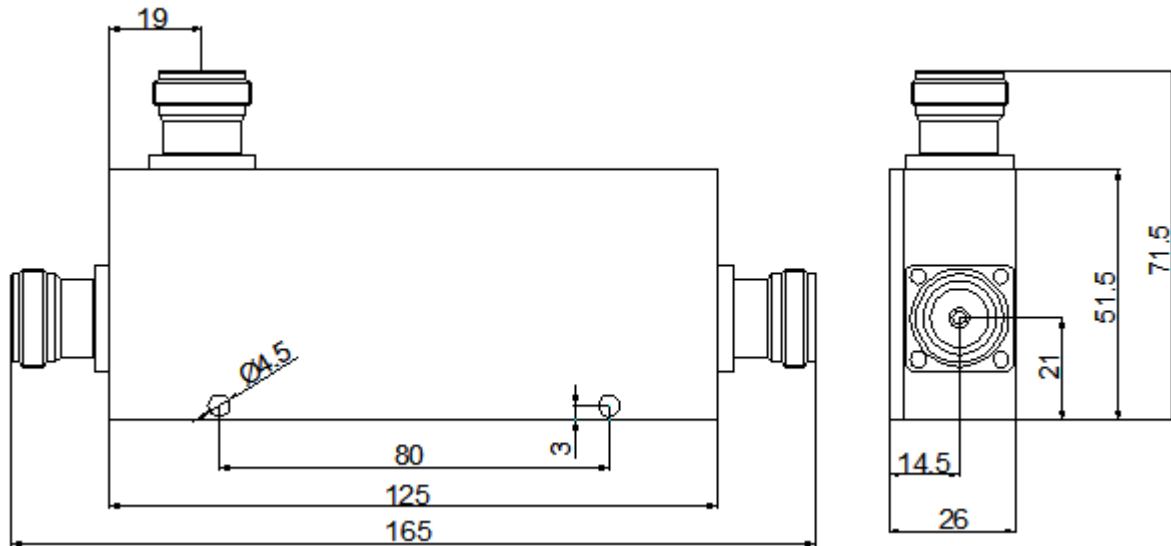
*Power may be limited by feeding into poorly matched loads overloading the termination.

| 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 |

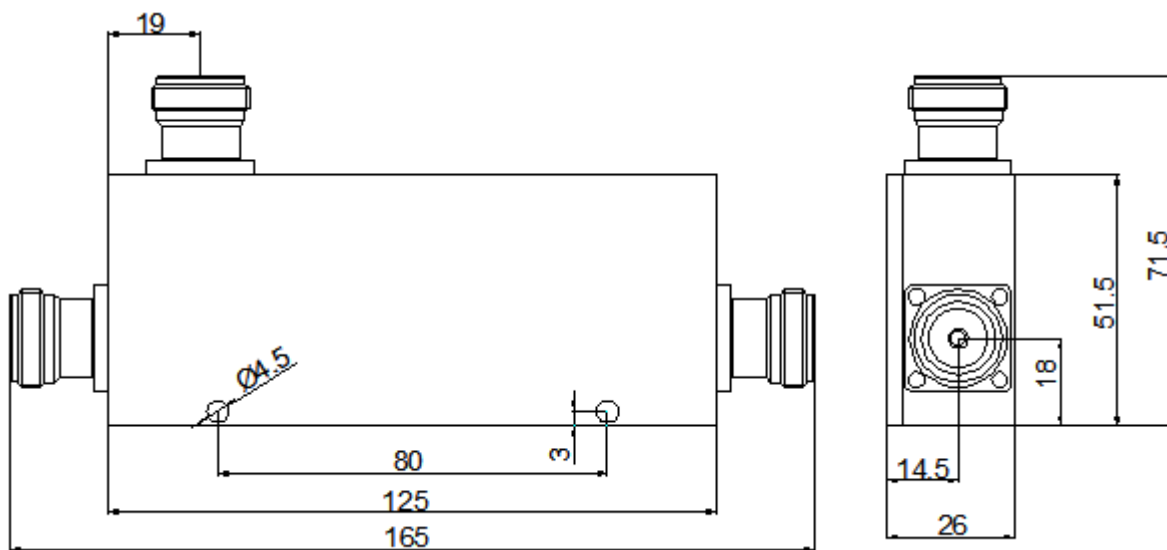
* Insertion loss is a sum of coupling loss, dissipative loss and loss due to isolation and reflection.

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.