

# Couplers

6-18 GHz

## High Power 100 Watt Directional Coupler

- Broadband – 6 to 18 GHz, High Directivity
- Excellent Frequency Flatness
- Operates at 85°C Ambient
- Designed for MIL Environments



### Applications

- EW Systems, 100 Watt TWT Power Monitor Circuits, BIT Circuits, Jammers
- Test Equipment/ATE
- Power Amplifier Control
- Radar-Transmitter Circuits
- 100 Watt Miniature Stripline Design

### Specifications

SMA (F), 6 to 18 GHz, 100 W

FREQUENCY RANGE (GHz)	MODEL	NOMINAL COUPLING (dB)	MAXIMUM DEVIATION FROM NOMINAL (dB)	DIRECTIVITY (dB min.)	TRUE INSERTION LOSS (dB max.)	VSWR		FREQUENCY SENSITIVITY (dB max.)	POWER*		WEIGHT (max.)	
						PRIMARY LINE (max.)	SECONDARY LINE (max.)		AVERAGE (W)	PEAK (kW)	oz.	gr.
6-18	4196-20	20	±1.0	12	0.5	1.5	1.5	±0.5	100	3	.88	25

\* Mounted to a Heat Sink (+85° C Max Housing Temperature). Power derates linearly from 100 watts at 85°C to 0 watts at 125°C housing temperature.

### Outline Drawing

#### NOTES:

1. Dimensions in inches (mm in parentheses), unless otherwise specified.
2. Dotted area represents .020 max. build-up of sealant per surface.
3. Connectors mate without interference per MIL-STD-348.

