



**Model DC7435A Series, DC7435 Series  
Dual Directional Coupler  
200 Watts CW  
4GHz-18GHz**

The Model DC7435 series are wide-band dual directional couplers intended for use with the 20S4G18, 40S4G18 and other S-Series microwave amplifiers operating within the frequency and power range. The wide frequency range assures flexibility in coupling high power amplifiers to power meters, spectrum analyzers, receivers, and other measuring instruments. The dual directional design allows the user to monitor both forward and reflected power, a much needed characteristic in RF susceptibility testing for amplifier overdrive protection, field control, and load protection. Low insertion loss allows efficient coupling to the load.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

**SPECIFICATIONS**

FREQUENCY RANGE.....	4–18GHz
POWER maximum .....	200 watts CW, 3000 watts peak
COUPLING FACTOR.....	35 ± 2.5 dB (includes flatness)
COUPLING FLATNESS.....	±1.0 dB
DIRECTIVITY.....	16 dB typical, 12 dB minimum
INSERTION LOSS .....	0.6 dB maximum
IMPEDANCE (Main Line) .....	50 ohms, VSWR 1.5:1 maximum
CONNECTORS (PRECISION) .....	See Model Configuration
WEIGHT.....	0.1 kg (3 oz)
SIZE (WxHxD).....	4.3 x 1.9 x 1.9 cm (1.7 x 0.75 x 0.75 in)
EXPORT CLASSIFICATION.....	EAR99

**MODEL CONFIGURATION**

Model	Mainline	Coupled
DC7435A	N (male)/N (female)	SMA (female)
DC7435AM1	N (male)/N (female)	N (female)
DC7435	TNC (female)	SMA (female)
DC7435M1	N (female)/N (female)	SMA (female)