



Accessories

Model DC7205A, DC7205 Dual Directional Coupler

Features:

- 0.7 - 6 GHz
- 250 W CW, 1 - 6 GHz
- Excellent frequency range and power handling
- Forward and Reflected power monitoring

Applications:

- Use with S-Series models within frequency and power range

To view our full accessories portfolio visit:
<https://arworld.us/test-accessories>

Amplifier Research Corporation
160 Schoolhouse Rd
Souderton, PA 18964
215.723.8181
info@arworld.us
www.arworld.us
ISO 9001:2015 Certified
ISO 17025 :2017 Accredited

The Models DC7205A & DC7205 are dual directional couplers with excellent frequency range and power handling capability. The wide range assures flexibility in coupling medium power amplifiers to oscilloscopes, voltmeters, power meters, spectrum analyzers 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 Model DC7205A/DC7205 series is uniquely suited for use with our line of 0.7- 6 GHz S-Series power amplifiers or other amplifiers operating within this frequency and power range.

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.

- 0.7 – 6 GHz
- 250 W CW

Specifications				
Parameter	Minimum	Typical	Maximum	Unit
Power (CW, maximum), 0.7 – 6 GHz			250	W
Operating Frequency	0.7		6	GHz
Coupling Factor (nominal)		41 ± 1.2		dB
Coupling Flatness		±0.8		dB
Directivity	15	18		dB
Insertion Loss			0.2	dB
Impedance		50		Ohm
with Type N input connector		1.2:1		VSWR
Export classification	EAR99			

Mechanical Specifications		
Parameters		Unit
Size (W x H x D)	6.8 x 5.1 x 3.05	cm
	2.7 x 2.0 x 1.2	in
Weight	0.27	kg
	0.6	lb

Connector interfaces				
	DC7205A	DC7205AM1	DC7205	DC7205M1
Function	Type	Type		
Mainline J1/J2	N (M) / N(F)	N (M) / N (F)	N (F) / N (F)	N (F) / N (F)
Coupled J3/J4	N (F) / N (F)	SMA (F) / SMA (F)	N (F) / N (F)	SMA (F) / SMA (F)

Amplifier Research recommends the use of low-pass filters (for example, Mini-Circuits VLF-6400+ or equivalent AR P/N 10045273 filter and AR P/N 10035328 adapter) on the coupled ports of this coupler. This practice ensures that in-band coupled power is not overstated due to exaggerated contributions from out-of-band harmonic content.