



Accessories

Model DC7215/DC7215A Dual Directional Coupler

Features:

- 0.7 - 6 GHz
- 1000 W CW
- Excellent frequency range and power handling

Applications:

- Use with AR models within frequency and power range

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

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ISO 9001:2015 Certified
ISO 17025 :2017 Accredited

The Model DC7215 and DC7215A series are dual directional couplers with excellent frequency range and power handling capability. The wide range assures flexibility in coupling high 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 DC7215 and DC7215A series is uniquely suited for use with our line of 0.7–6 GHz S-Series power amplifiers, 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.

Model DC7215/DC7215A

- 0.7 – 6 GHz
- 750 W

Specifications				
Parameter	Minimum	Typical	Maximum	Unit
Power (CW, maximum), 0.7 – 6 GHz			1000	W
Operating Frequency	0.7		6	GHz
Coupling Factor (nominal)		50 ± 1.5		dB
Coupling Flatness		±0.5		dB
Directivity	15	18		dB
Insertion Loss			0.2	dB
VSWR (Main Line)		50		Ohm
		1.35:1	1.45:1	VSWR
EAR99				

Mechanical Specifications		
Parameters		Unit
Size (W x H x D)	5.5 x 5.1 x 3.5	cm
	2.15 x 2.0 x 1.36	in
Weight	0.27	kg
	0.6	lb

Connector interfaces		
	DC7215A	DC7215
Function	Type	Type
Mainline J1/J2	7-16 (M) / 7-16 (F)	7-16 (F) / 7-16 (F)
Coupled J3/J4	N (F) / N (F)	N (F) / N (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.

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To order AR Products, call: 215.723.8181. For an applications engineer, call: 800.933.8181. Direct to Service call: 215.723.0275 or email: service@arworld.us

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Revision 053024