

PRESS RELEASE: **New Product Design**

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Microphase Develops Miniature Directional RF Couplers, Allowing Precise Monitoring of RF Energy.



April 30, 2007 - Norwalk, CT: The Miniature 3 Port Directional RF Couplers pictured, are specifically designed to monitor incident or reflected power within a small package design. The Directional RF Couplers offer superior performance over a frequency range of 10 MHz to 3 GHz with a coupling value of 14.2 ± 0.75 dB. The Microphase Couplers are offered in a lightweight aluminum package and can be manufactured in a variety of configurations. Shown are the 50 and 75 ohm units with connector options of SMA or SMB and convenient thru hole mounting.

Specifications

Frequency Range:	10 MHz to 3000 MHz
Coupling:	14.2 dB \pm 0.75 dB
Insertion Loss:	1.0 dB max. from 10 to 1000 MHz
	1.5 dB max. from 1000 to 2000 MHz
	2.0 dB max. from 2000 to 3000 MHz
Return Loss:	18.0 dB min. from 10 to 1000 MHz
	15.0 dB min. from 1000 to 2000 MHz
	14.0 dB min. from 2000 to 3000 MHz
Directivity:	14.0 dB min. from 10 to 1000 MHz
	11.0 dB min. from 1000 to 3000 MHz
Input Power:	3.0 watts max.
Mounting Holes:	Three 3/32" Thru Holes
Size:	0.65" L by 0.5" W by 0.38" H (excluding connectors)
Weight:	0.10 ounces

Microphase Corporation has 50 plus years of history in microwave and RF design, engineering and delivering high-performance filters, switch filters, multiplexers, detectors, limiters, DLVA's, SDLVA's, integrated assemblies and sub-systems for advanced military communications and electronic warfare, EW, ECM, ESM, RWR, ELINT, COMINT and SIGINT systems applications.

Microphase will custom design your filter, solid-state switch, switch filter, multiplexer, limiter, detector or detector log video amplifier to meet your specific needs. Customers are encouraged to contact Microphase with their specific requirements to attain optimal electrical performance and mechanical packaging for their application.

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