Microphase Corporation

Norwalk, Connecticut

PRESS

Booth 602

International Microwave Symposium

MTT-S Show June 17-19 , 2008

New Products Annoucnements

This kit contains the following announcements:

New Design for Anti-Jamming Solutions; Extended Dynamic Range Up To 100 dB
Military Application

Miniature Directional RF Couplers; Allow Precise Monitoring of RF Energy
Military and Commercial Applications

New Designs for MoCA ® Applications for Home Networking Manufacturers and Providers
Commercial Application

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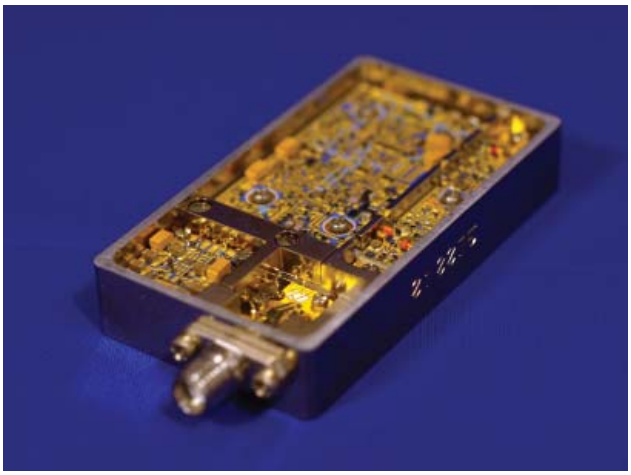
Anti-Jamming Solutions

Extended Dynamic Range up to 100 dB

CW Immune Anti-Jamming APPS
2-18 GHz



DLVA DLVA DLVA DLVA

SPECIFICATIONS

Frequency Range	2.0- 18.0 GHz
Flatness @ -23 dBm	±1.0 dB
VSWR	3.0:1 max.
Tangential Signal Sensitivity (TSS)	-42 dBm min.
Logging Range	-40 dBm to +20 dBm
Log Slope	50 mV/dB
Log Linearity	±0.5 dB(-40 dBm to +20 dBm)
Output Stability (-54°C to +85°C)	±1.0 dB
Pulse Width Range	50 nsec. to 100 µsec.
Duty Factor*	70% max.
Rise Time	20 nsec. max.
Recovery Time (to within ± 1 dB for ± 1.5 dB accuracy @+15 dBm input)	500 nsec. max.
Video Load	100 Ohms
Power (no signal)	+15V ±5% 110 mA max. +15V ±5% 130 mA max.
Operating Temperature	-54°C to +85°C
Size (excluding connectors)	2.90" x 2.30" x 0.50"
Conncectors	SMA and Pins

62 dB Dynamic Range
-42 dBm to +20 dBm and CW Immunity

Exceptional Log Linearity Over Temperature and Frequency

Fast Recovery From + 20 dBm

Single Diode Detector Circuit

Extended Dynamic Range

+20 dBm Capability

AVAILABLE OPTIONS

Other wide-band frequency ranges down to 0.5 HGz or narrower and designs with optimized characteristics.

*Recovery time is included in D.F. definition:
D.F. (Effective)= (Signal Pluse Width + Recovery Time ÷ Period)

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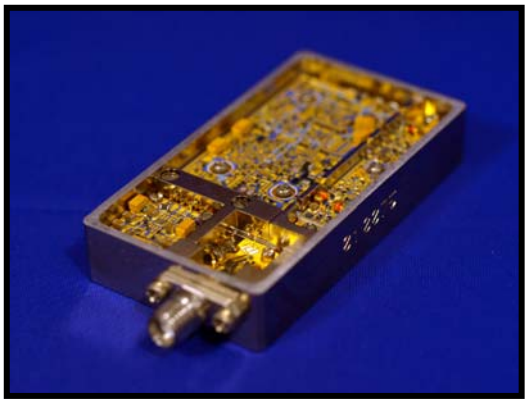
MICROPHASE CORPORATION

Over 50 Years of Business

BOOTH 602 Military and Telecom Industry
Product Announcement: New Product Designs for Anti-Jamming Solutions

Microphase Develops

New Design for Anti-Jamming Solutions; Extended Dynamic Range Up To 100 dB



June 17, 2008 - Norwalk, CT: Microphase announces a new Detector Log Video Amplifier design for Anti-Jamming Solutions. Microphase, a leader in the DLVA industry, can design this product to meet your application to include the following features: Fast Pulse Response, Excellent Frequency Flatness, High-Speed/Broadband, Extended Dynamic Range, Ultra High Sensitivity. Microphase can design this unit for application within a Phased Array Radar, Electronic Countermeasure Systems, and Integrated Systems. Stop by the Microphase Booth 602 to discuss the solution you are seeking for your Anti-Jamming design project.

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.

To design a DLVA to your specifications contact Microphase at the below address:

Microphase Corporation

587 Connecticut Avenue

Norwalk, CT 06854-0960

Telephone (203) 866-8000

FAX (203) 866-6727

Web Site: http://www.microphase.com E-mail: quote@microphase.com

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MICROPHASE CORPORATION

Over 50 Years of Business

BOOTH 602 Military and Telecom Industry
Product Announcement: New Product Designs June 17, 2008

Microphase Develops

Miniature Directional RF Couplers; Allow Precise Monitoring of RF Energy

June 17, 2008 - Norwalk, CT: Microphase announces the designs of two miniature Directional Couplers for applications in the Military and Telecom industry. The Miniature 3 Port 50 Ohm and 75 Ohm Directional RF Couplers, 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 Ohm and 75 Ohm units with connector options of SMA or SMB and convenient thru holesmounting.

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.

To design a coupler to your specifications contact Microphase at the below address:

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Miniature Directional RF Coupler

Couplers

Small Package Size

Precise Monitoring of RF Energ

Design for Military Applications

Design for Commercial Applications

SPECIFICATIONS

Frequency Range	10 MHz to 3000 MHz
Coupling	14.2 dB ± 0.75 dB
Insertion Loss	
	1.0 dB max. from 10 MHz 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 1000MHz
	11.0 dB min. from 1000 to 3000 MHz
Input Power	3.0 watts max.
Mounting Holes	Three 3/32″ Thru Holes
Size (excluding connectors)	0.65″ L x 0.5″ W x 0.38″ H
Connectors	SMA female
Weight	0.10 oz.

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BOOTH 602 Military and Telecom Industry
Product Announcement: New MoCA® Compliant Product Designs

Microphase Develops

New Designs for MoCA® Applications for Home Networking Manufacturers and Providers

June 17, 2008 - Norwalk, CT: Microphase Corporation, a world renowned leader in Radio Frequency (RF) sub and integrated assembly design and supply for over fifty years, announced an upgraded series of diplexers and RF Integrated Assemblies that meet Multimedia over Coax Alliance (MoCA®) standards. Microphase products ensure RF signal distribution for enhanced triple play (voice, data, and video) services. The diplexers and RF Integrated Assemblies are used in products such as set-top boxes, gateways, optical network terminals, network interface devices (NIDs), for Internet protocol Television (IPTV), video over the telephone network (Telco TV), and cable TV applications. Many of today's homes have coaxial cable that is accessible and used throughout the home. MoCA technology enables video distribution by utilizing RF frequencies over the existing coaxial cable, which is used to transmit all three triple play services within the home. The additions to Microphase's rapidly expanding MoCA Product Suite are:

Model	Description	Frequency Range	Impedance (ohms)	Connector
C5251	Video MoCA NID	5-860 / 975-525MHz	75	Type "F"
C5253	ONT MoCA Diplexer	5-860 / 975-1025MHz	75	Thru-Hole Pin
C5259	MoCA Diplexer for Set Top Box	5-1000 / 1125-1525MHz	75	Surface Mount
C5267	MoCA Point of Entry (POE) Filter	5-1000MHz	75	"F" – Inline Bullet
C5270	MoCA Amplifier Bypass	5-860 / 1125-1525MHz	75	Type "F"

"Microphase has been optimizing these product designs to work with integrated circuits that meet MoCA standards since 2004, according to Global Director of Business Development Peter Gasparini. "This is an organic fit for our Home Networking Products, which also includes RF designs for HomePNA Alliance, Ultra Wide Band (UWB) and broadband access networks, such as VDSL and WiMAX." With our excellent engineering and high volume manufacturing, Microphase continues to be well-positioned to meet the demands of the customer premises RF filter solutions market.

MICROPHASE CORPORATION

Over 50 Years of Business

BOOTH 602 Military and Telecom Industry

Product Announcement: New MoCA® Compliant Product Designs

Microphase remains committed to its strong relationships with both OEM communications suppliers and service providers, such as Telcos and Multiple System Operators (MSOs). Our products perform the separation of these bands effectively; with low loss and excellent rejection using the consistently high quality design ingenuity Microphase has provided customers for over 50 years. The Microphase MoCA Product Suite covers various types of designs such as: lowpasses, diplexers and multiplexers, all available for use inside or outside the customer premises. Microphase offers catalog components; our business is designing and manufacturing to customer and global industry specifications.

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Multimedia over Coax (MoCA™) Applications

CPE - Home Networking Applications (Customer Premisis Equipment)

CPE - Home Networking

Diplexer

Surface Mount
< 1 in.^{2} Footprint
Low Profile

Lowpass Filter

Point of Entry (POE)

Suitable For Outdoor Applications
Weatherized F Connector
110 dB RFI Shielding
Low Insertion Loss
High Rejection
Excellent Return Loss

Diplexer

Weatherized "F" Connectors
Surge Protection - 2KV Combination Wave Per ANSI/SCTE 81 2003

Diplexer

Small Size
110 dB RFI Shielding
Low Insertion Loss
High Rejection
Excellent Return Loss
Weatherized Connectors

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