

Multi-Couplers
And
Distribution Amplifiers
0.5 MHz to 18 GHz

YOUR CHALLENGE

IS OUR PROGRESS

About our Company

I.F. Engineering Corp was founded in 1987 by Lee & Lois Foshay and began as a microwave and RF Components consulting firm. The Foshays ran the company out of a small duplex next door to their home by Nichols College in Dudley, MA. During that time, they both managed to maintain full time jobs while they devoted all of their personal time to growing their business.

The Foshays made the decision to incorporate the business in 1994. In the following years, I.F. Engineering Corp continued to grow, forcing them to leave the duplex. In 2003, they moved in to a 7,500 square foot building in Fabyan, CT where the company achieved ISO-9001 Certification in 2008.

In 2011, I.F. Engineering Corp was able to build their own customized facility consisting of 20,000 square feet to meet the needs of their growing customer base. Now located in the new building on Foshay Road in Dudley, MA, I.F. Engineering Corp is a leading designer and manufacturer of components and sub-systems. They extend from 100 KHz through 7GHz, with an emphasis on L-Band Distribution systems. I.F. Engineering Corp, along with its dedicated employees, has made significant strides in becoming a major contender in the RF industry.

Our products are incorporated in numerous military and commercial applications such as Radar Systems, Cellular and PCS Base Stations, Earth Stations/Teleports and Communications systems.



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Components for Signal Processing

Power Dividers (Splitters) and Combiners, Resistive

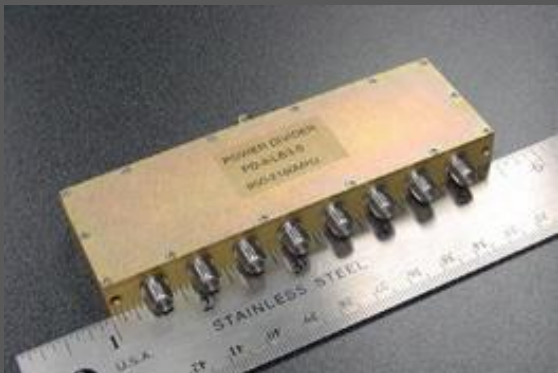
This product line covers the DC to 6 GHz frequency range in a single unit and is available in 3 port to 1 X 16 port devices. SMA and type "N" packages are the most common and we are well suited to applications that require flat response and good VSWR



Power Dividers (Splitters) and Combiners, Lumped Constant

These types of Power Dividers and Combiners have been in production for many years. Recently the engineers at I.F.E. have made major advances in extending the bandwidth and the upper limits of operation. We are now delivering broadband units that operate from 20 MHz to 3 GHz. They are available in 2 Way, 4 Way, 8 Way and 16 Way Power Dividers and Combiners.

They are offered in SMA and surface mountable packages. Other options will be available soon.



Power Dividers (Splitters) and Combiners, Coaxial

This particular Power Divider incorporates a coaxial transformer approach. This design has a very broadband response, in excess of two decades. I.F.E. offers this type of design from 1 X 2 up to 1 X 32 Divider/Combiner.





Directional Couplers

I.F.E. offers three port, four port, and Dual Directional Couplers. Our couplers offer typical coupling tolerances of <0.5 dB, directivity >20 dB, with VSWR $<1.2:1$. Standard coupling values are 6, 10, 14, 15, 16, 20 and 30 dB. The couplers are available in several connectorized packages as well as surface mountable, and operate from 0.1 MHz to 3 GHz.

Signal Control and Conversion

I.F.E. has a very comprehensive line of signal control and conversion devices. These include but are not limited to Up/Down Converters with internal phase locked L.O., Digital Attenuators, Digital Phase Shifters, Vector Modulators, Single Side-Band Modulators, Image Reject Mixers, and I&Q Demodulators/Phase Comparators..



I.F.E. offers an extensive array of broadband components for both 50 and 75 ohm systems.

These components are available in a variety of packages that include connectorized housings, TO8, Plug-In, Flat Packs and surface mountable packages.

Our designs incorporate coaxial, lumped constant, resistive, micro-strip and stripline algorithms.

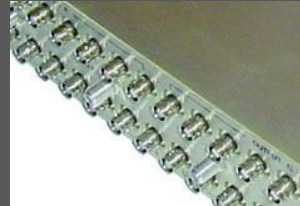
Sub-Systems and RF Assemblies

L-Band Multi-Couplers / Patch Panels (75 Ohm)

These Multi-Couplers are available in a variety of configurations and frequency ranges. The mechanical configurations vary from 1RU high to 6RU high chassis.

The 1RU configuration has a maximum of sixteen (16) outputs and four (4) channels. The 2RU versions are available with thirty-two (32) outputs and from one (1) to eight (8) input channels.

Present designs in 6RU chassis's have one hundred twenty-eight (128) outputs and from one (1) to sixteen (16) input channels.



C-Band Power Dividers / Combiners

I.F.E. manufactures a complete line of C-Band Power Dividers and Combiners for Down/Uplink facilities and Matrix Switch applications.

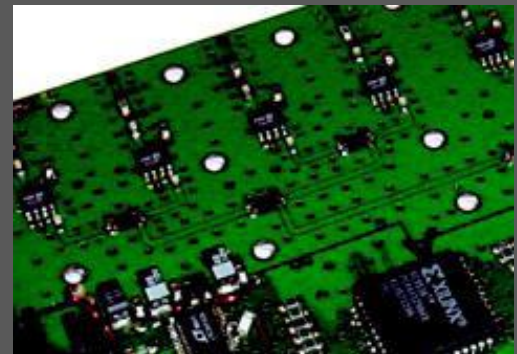
These are available in several packages, which include type "N", SMA, and OSP connectorized versions as well as Surface Mountable devices.

The standard configurations are: two (2) Way, four (4) Way, eight (8) Way, sixteen (16) Way and thirty-two (32) Way.

The available frequency ranges are: CB1 3.7 to 4.2 GHz (receive), CB2 5.8 to 6.5 GHz (transit), CB3 3.6 to 6.6 GHz (dual range).

Switching Products

I.F.E. manufactures several types of switch products covering the 0.1 MHz to 2.5 GHz frequency range. Our designs incorporate P.I.N. diodes, Electro-Mechanical, and GaAs devices. The designs include 1 X 2 through 1 X 16, and transfer switching.



Multi-Couplers and Distribution Amplifiers

I.F. ENGINEERING
PD-24006-S-RE
OUFA1



Multi-Couplers / Distribution Amplifiers

Product Overview

I.F. Engineering Multi-Couplers provide a reliable, cost effective product for the distribution of signals. Our Multi-Couplers have a proven track record for continuous operation providing excellent gain flatness across the entire frequency range. We offer standard configurations as noted below, but our specialty is providing uniquely engineered products that will meet your specific needs.

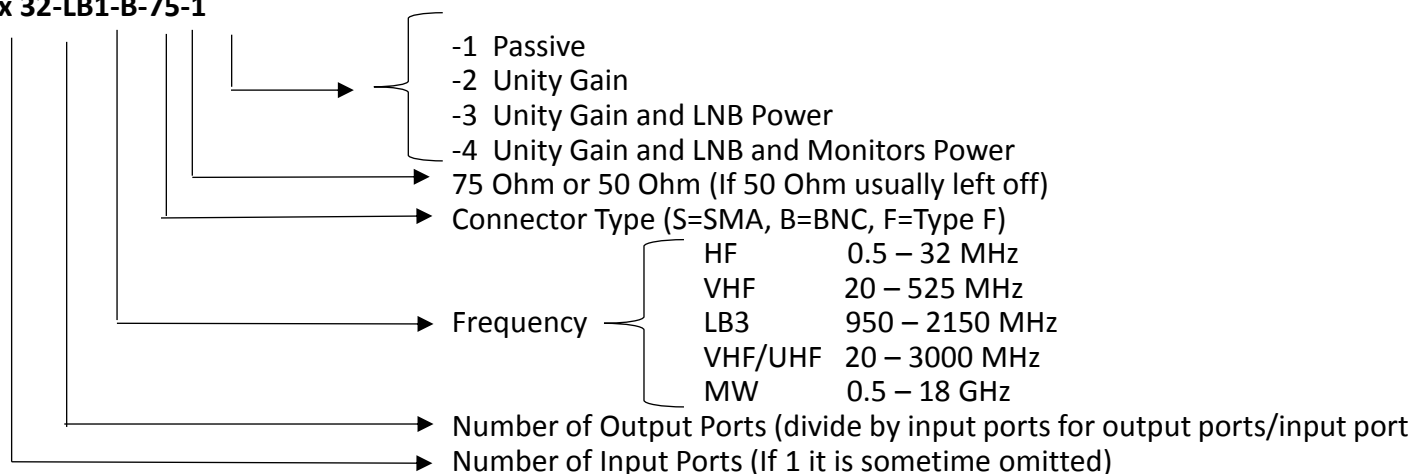


Product Features / Options

- Excellent Gain Flatness
- Proven Reliability
- 50 Ohm, 75 Ohm or Mixed Impedance
- Universal Redundant Power Supplies
- Monitor Ports Front or Rear Panel
- Switchable and Fused LNB Power
- Passive or Unity Gain

Specifying Multi-Couplers

MC-4 x 32-LB1-B-75-1



Other Considerations:

- Input Ports on Front or Rear Panel
- Output Ports on Front or Rear Panel
- Monitor Ports on Front or Rear Panel

Input Ports	Output Ports /Input Port	Size
1	8	1 RU
1	16	1 RU
1	32	2 RU
2	8	1 RU
2	16	2 RU
4	8	2 RU
8	4	2 RU

Multi-Couplers / Distribution Amplifiers

L-Band Multi-Coupler – 75 Ohms

Part Number	Frequency (MHz)	Gain (dB)	Port to Port		VSWR Input / Output	Input Ports – Output Ports per		Impedance (Ohms)
			Isolation (dB)			Input		
MC-16 LB3-75	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	1 – 16		75
MC-32-LB3-75	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	1 – 32		75
MC-2X16-LB3-75	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	2 – 8		75
MC-2X32-LB3-75	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	2 – 16		75
MC-4X32-LB3-75	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	4 – 8		75
MC-8X32-LB3-75	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	8 – 4		75

Connectors Type F or BNC
Additional Options RF Monitor Port
LNB Power
Uplink Combiner

L-Band Multi-Coupler – 50 Ohms

Part Number	Frequency (MHz)	Gain (dB)	Port to Port		VSWR Input / Output	Input Ports – Output Ports per		Impedance (Ohms)
			Isolation (dB)			Input		
MC-16 LB3-50	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	1 – 16		50
MC-32-LB3-50	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	1 – 32		50
MC-2X16-LB3-50	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	2 – 8		50
MC-2X32-LB3-50	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	2 – 16		50
MC-4X32-LB3-50	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	4 – 8		50
MC-8X32-LB3-50	950 – 2150	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	8 – 4		50

Connectors Type F or BNC
Additional Options RF Monitor Port
LNB Power
Uplink Combiner

Multi-Couplers / Distribution Amplifiers

IF-Band Multi-Coupler

Part Number	Frequency (MHz)	Gain (dB)	Port to Port		VSWR Input / Output	Input Ports – Output Ports per Input	Impedance (Ohms)
			Isolation (dB)				
MC-16-IF-75	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	1 – 16	75
MC-32-IF-75	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	1 – 32	75
MC-2X16-IF-75	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	2 – 8	75
MC-2X32-IF-75	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	2 – 16	75
MC-4X32-IF-75	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	4 – 8	75
MC-8X32-IF-75	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	8 – 4	75
MC-16-IF-50	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	1 – 16	50
MC-32-IF-50	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	1 – 32	50
MC-2X16-IF-50	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	2 – 8	50
MC-2X32-IF-50	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	2 – 16	50
MC-4X32-IF-50	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	4 – 8	50
MC-8X32-IF-50	20 – 200	0 ± 2.0	30 typ.		1.75:1 / 1.5:1 Max	8 – 4	50

HF-Band Multi-Coupler

Part Number	Frequency (MHz)	Gain (dB)	Port to Port		VSWR Input / Output	Noise Figure	Input Ports – Output Ports per Input	Impedance (Ohms)
			Isolation (dB)					
MC-16-HF-50	0.5 – 32	0 ± 2.0	35 typ.		1.5:1 / 1.5:1 Max	6.0	1 – 16	50
MC-32-HF-50	0.5 – 32	0 ± 2.0	35 typ.		1.5:1 / 1.5:1 Max	6.0	1 – 32	50
MC-2X16-HF-50	0.5 – 32	0 ± 2.0	35 typ.		1.5:1 / 1.5:1 Max	8.5	2 – 8	50
MC-2X32-HF-50	0.5 – 32	0 ± 2.0	35 typ.		1.5:1 / 1.5:1 Max	6.0	2 – 16	50
MC-4X32-HF-50	0.5 – 32	0 ± 2.0	35 typ.		1.5:1 / 1.5:1 Max	8.5	4 – 8	50

VHF / UHF-Band Multi-Coupler

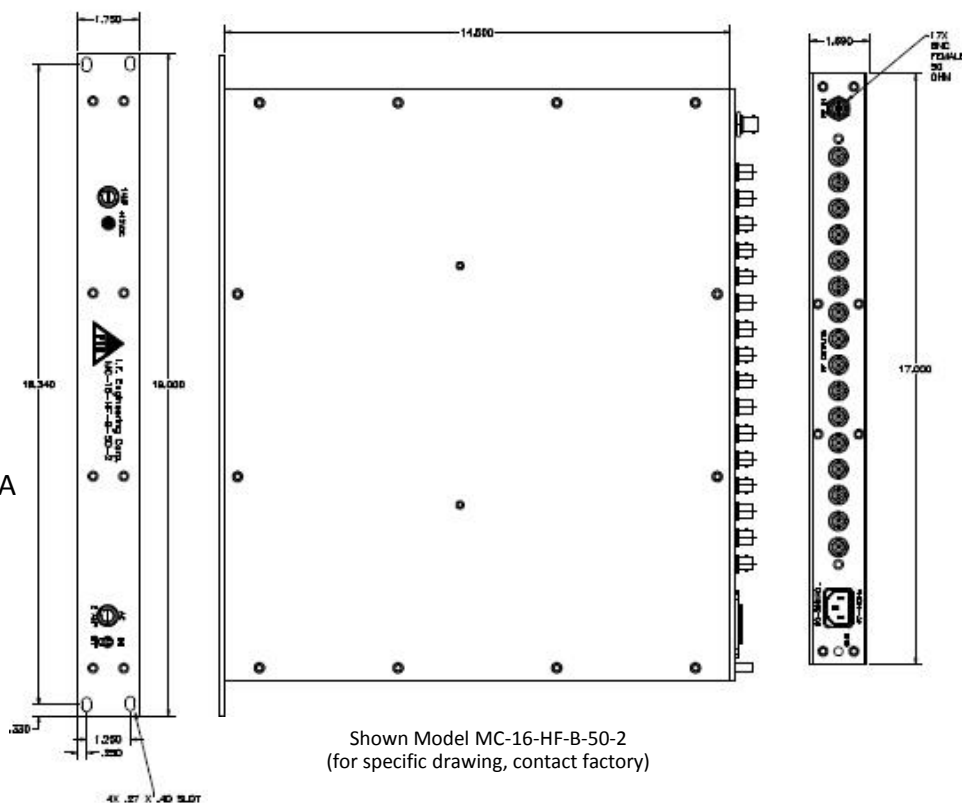
Part Number	Frequency	Gain (dB)	Port to Port		VSWR Input / Output	Input Ports – Output Ports per Input	Impedance (Ohms)
			Isolation (dB)				
MC-16-VHF/UHF-50	30 MHz – 3 GHz	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	1 – 16	50
MC-32-VHF/UHF-50	30 MHz – 3 GHz	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	1 – 32	50
MC-2X16-VHF/UHF-50	30 MHz – 3 GHz	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	2 – 8	50
MC-2X32-VHF/UHF-50	30 MHz – 3 GHz	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	2 – 16	50
MC-4X32-VHF/UHF-50	30 MHz – 3 GHz	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	4 – 8	50
MC-8X32-VHF/UHF-50	30 MHz – 3 GHz	0 ± 2.0	18 typ.		2.0:1 / 1.8:1 Max	8 – 4	50

HF Multi-Coupler

0.5 MHz to 32 MHz

Product Features

- Eight to Sixteen Outputs
- Impedance – 50 Ohm or 75 Ohm
- High Dynamic Range
- Excellent Gain Flatness
- Gain Control (Optional)
- High Intercept Amplifier (Option HIA)
- Input Filter (Optional)
- RF Connectors (In/Out) – N, TNC, BNC or SMA



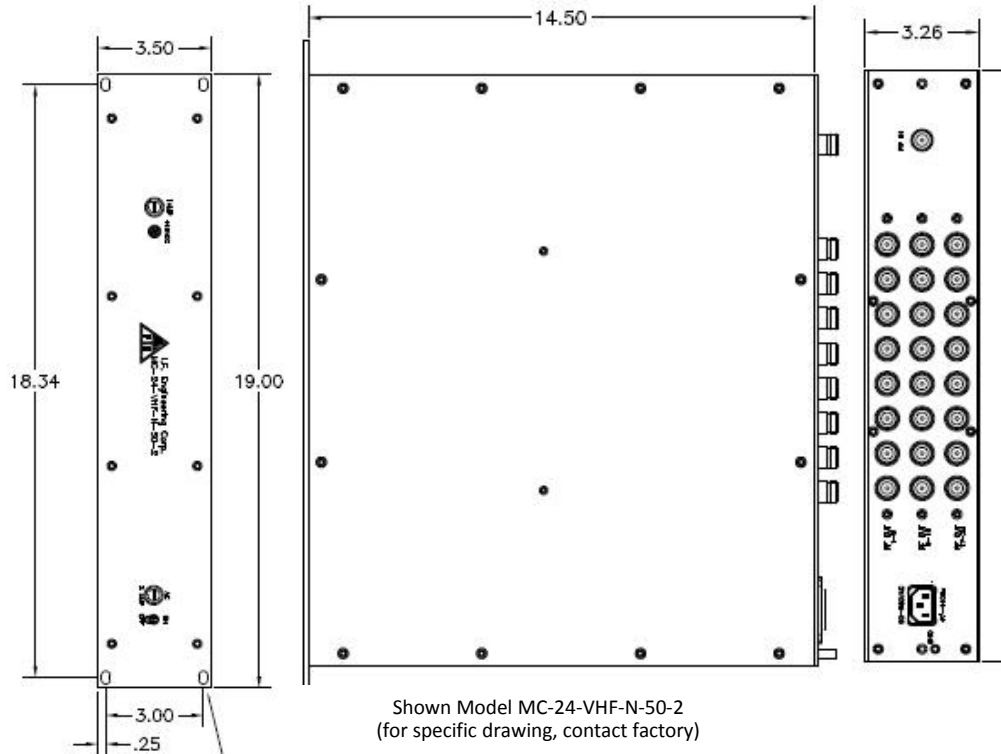
	MC-8-HF	MC-8-HF-HIA	MC-16-HF	MC-16-HF-HIA
Number of Input Ports	1	1	1	1
Number of Output Ports	8	8	16	16
Frequency Range (MHz)	0.5 - 32	0.5 - 32	0.5 - 32	0.5 - 32
Gain (dB) Max	2 ± 1	2 ± 1	2 ± 1	2 ± 1
Gain Flatness (dB) Min/Max	± 1	± 1	± 1	± 1
Isolation (dB) Min				
Out/Out	40	40	40	40
Out/In	30	50	32	50
VSWR (Max)				
Input	1.5:1	1.5:1	1.5:1	1.5:1
Output	1.2:1	1.2:1	1.2:1	1.2:1
Impedance (Ohms)	50	50	50	50
Noise Figure (dB) Max	7	9	6	9
IPIP3 (dBm) Min	+27	+37	+27	+37
IPIP2 (dBm) Min	+67	+82	+67	+82
OP1dB Compression Pt (dBm)	+15	+17	+13	+15
OPIP3 (dBm) Min	+30	+40	+30	+40
OPIP2 (dBm) Min	+70	+85	+70	+85
Weight (lbs.)	10	10	10	10
SFDR (dB)				
1 Hz	90	95	90	95
50 kHz	98	104	98	104
AC Power	85 – 264 VAC, 47 – 63 Hz, 18 W (Max)			
Size (in.)	1.75 H x 19 W x 14.5 D			
Operating Temperature (°C)	0 to 50			

VHF Multi-Coupler

20 MHz to 525 MHz

Product Features

- Eight to Sixteen Outputs
- Impedance – 50 Ohm or 75 Ohm
- High Dynamic Range
- Excellent Gain Flatness
- Gain Control (Optional)
- High Intercept Amplifier (Option HIA)
- Input Filter (Optional)
- RF Connectors (In/Out) – N, TNC, BNC or



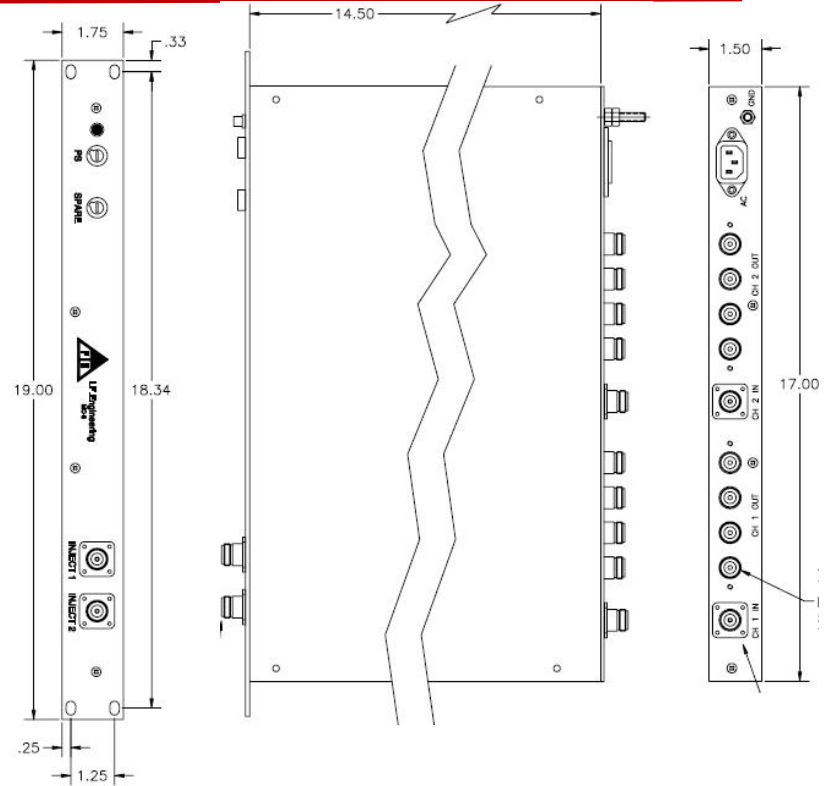
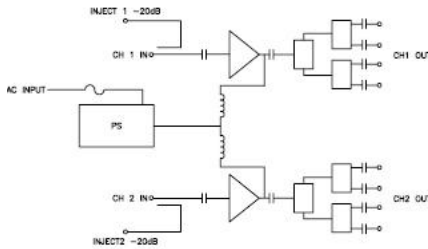
	MC-8-VHF	MC-16-VHF
Number of Input Ports	1	1
Number of Output Ports	8	16
Frequency Range (MHz)	20 - 525	20 - 525
Gain (dB) Max	0 ± 1	0 ± 1
Gain Flatness (dB) Min/Max	± 1	± 1
Phase Balance (°) Min/Max	± 5	± 5
Isolation (dB) Min		
Out/Out	25	25
Out/In	30	36
VSWR (Max)		
Input	1.5:1	1.5:1
Output	1.5:1	1.5:1
Impedance (Ohms)	50/75	50/75
Noise Figure (dB) Max	7	9
IPIP3 (dBm) Min	+25	+25
IPIP2 (dBm) Min	+50	+50
OP1dB Compression Pt (dBm)	+10	+10
OPIP3 (dBm) Min	+25	+25
OPIP2 (dBm) Min	+50	+50
Weight (lbs.)	10	10
SFDR (dB)		
1 Hz	88	86
50 kHz	96	95
AC Power	85 – 264 VAC, 47 – 63 Hz, 18W (Max)	
Size (in.)	1.75 H x 19 W x 14.5 D	
Operating Temperature (°C)	0 to 50	

VHF/UHF – Dual Channel Multi-Coupler

20 MHz to 1200 MHz
1000 MHz to 3000 MHz

Product Features

- Dual Channel – One Input to Four Outputs
- Impedance – 50 Ohm or 75 Ohm
- High Dynamic Range
- Excellent Gain Flatness
- Gain Control (Optional)
- High Intercept Amplifier (Option HIA)
- Input Filter (Optional)
- RF Connectors (In/Out) – N, TNC, BNC or SMA



MC-2X8-208-N

Number of Input Ports
 Number of Output Ports
 Frequency Range (MHz)

Channel 1
 20 - 1200

1
 8

Channel 2
 1000 - 3000

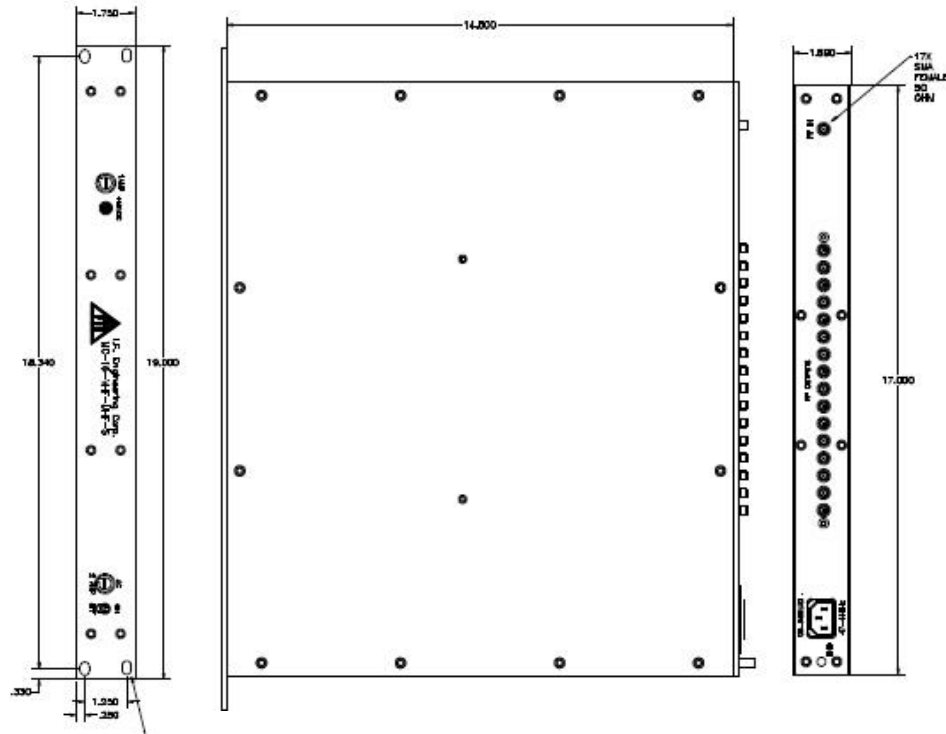
	Min	Typ	Max	Min	Typ	Max
Gain (dB)	-2	0	+2	-2	0	+2
Gain Flatness (dB)	-1		+1	-1		+1
Amplitude Balance (dB)						
Port/Port	-0.3	0	+0.3	-0.3	0	-0.3
Phase Balance (°)						
Port/Port	-5		+5	-5		+5
Isolation (dB)						
Out/Out	18	20		18	20	
VSWR						
Input		1.6:1	2.0:1		1.6:1	2.0:1
Output		1.6:1	2.0:1		1.6:1	2.0:1
Impedance (Ohms)		50			50	
Noise Figure (dB)		+7	+10	+7		+10
IPIP3 (dBm)	+10			+10		
IPIP2 (dBm)	+20			+20		
OP1 dB Compression Pt (dBm)	0			0		
OPIP3 (dBm)	+10			+10		
OPIP2 (dBm)	+20			+20		
Operating Temperature (°C)	0		50	0		50
Weight (lbs.)					10	
AC Power					100 - 230 VAC, 47-63 Hz, 20W (Max)	
Size (in.)					1.75 H x 19 W x 14.5 D	

VHF / UHF Broadband Multi-Coupler

20 MHz to 3000 MHz

Product Features

- Eight to Sixteen Outputs
- Impedance – 50 Ohm or 75 Ohm
- High Dynamic Range
- Excellent Gain Flatness
- Gain Control (Optional)
- High Intercept Amplifier (Option HIA)
- Input Filter (Optional)
- RF Connectors (In/Out) – N, TNC, BNC or SMA



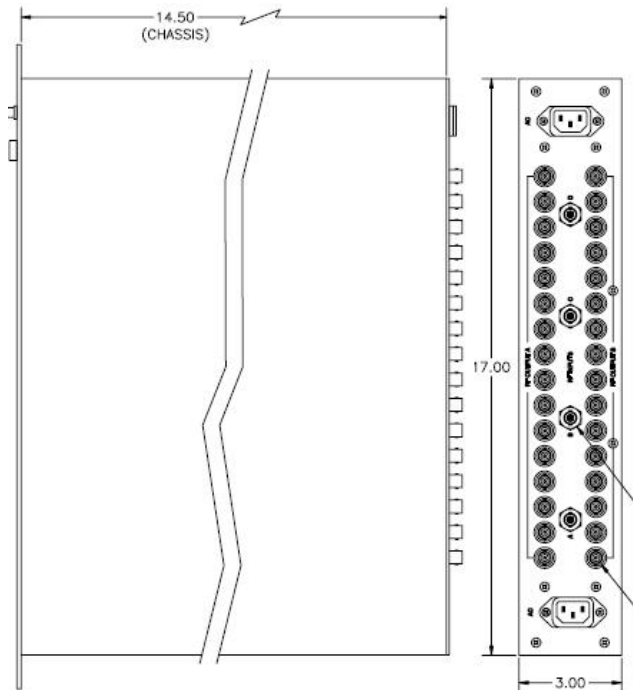
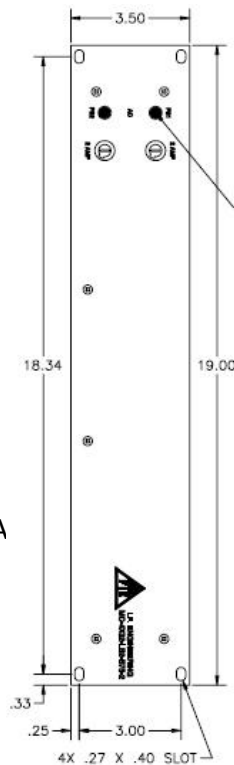
	MC-8-VHF/UHF	MC-16-VHF/UHF
Number of Input Ports	1	1
Number of Output Ports	8	16
Frequency Range (MHz)	20 - 3000	20 - 3000
Gain (dB) Max	2 ± 2	2 ± 2
Gain Flatness (dB) Min/Max	± 1.75	± 1.75
Phase Balance (°) Min/Max	± 15	± 15
Isolation (dB) Min		
Out/Out	18 (20 typ)	18 (20 typ)
Out/In	50	50
VSWR (Max)		
Input	1.75:1	17.5:1
Output	1.75:1	1.75:1
Impedance (Ohms)	50/75	50/75
Noise Figure (dB) Max	10 (8 typ)	8
IPIP3 (dBm) Min	+18	+30
IPIP2 (dBm) Min	+18	+30
OP1dB Compression Pt (dBm)	+4	+2
OPIP3 (dBm) Min	+20	+18
OPIP2 (dBm) Min	+35	+30
Weight (lbs.)	10	10
SFDR (dB)		
1 Hz	87	82
50 kHz	90	91
AC Power	85 – 264 VAC, 47 – 63 Hz, 18W (Max)	
Size (in.)	1.75 H x 19 W x 14.5 D	
Operating Temperature (°C)	0 to 50	

L-Band Multi-Coupler

950 MHz to 2150 MHz

Product Features

- Frequencies: LB1 – 950 – 1450 MHz
- LB2 – 950 – 1750 MHz
- LB3 – 950 – 2150 MHz
- Eight to Thirty Two Outputs
- Impedance – 50 Ohm or 75 Ohm or mixed
- High Dynamic Range
- Excellent Gain Flatness
- Gain Control (Optional)
- Switchable and Fused LNB Power
- Passive or Unity Gain
- RF Connectors (In/Out) – F, N, TNC, BNC or SMA



	MC-8-LB	MC-16-LB
Number of Input Ports	1	1
Number of Output Ports	8	16
Frequency Range (MHz)	950 - 2150	950 – 2150
Gain (dB) Max	0 ± 2	0 ± 2
Gain Flatness (dB) Min/Max	± 1	± 1
Gain Balance (°) Min/Max	± 1	± 1
Phase Balance (°) Min/Max	± 10	± 10
Isolation (dB) Min		
Out/Out	18 (20 typ)	18 (20 typ)
Out/In	30	33
VSWR (Max)		
Input	1.8:1 (1.6:1 typ)	1.8:1 (1.6:1 typ)
Output	1.8:1 (1.6:1 typ)	1.8:1 (1.6:1 typ)
Impedance (Ohms)	50/75	50/75
Noise Figure (dB) Max	9 (7 typ)	9 (7 typ)
IPIP3 (dBm) Min	+15	+15
IPIP2 (dBm) Min	N/A	N/A
OP1dB Compression Pt (dBm)	+6	+6
OPIP3 (dBm) Min	+15	+15
Weight (lbs.)	10	10
SFDR (dB)		
1 Hz	80	80
50 kHz	88	88
AC Power	85 – 264 VAC, 47 – 63 Hz, 18W (Max)	
Size (in.)	1.75 H x 19 W x 14.5 D	
Operating Temperature (°C)	0 to 50	

Additional Interconnectivity

Input Ports	Output Ports /Input Ports	Size
1	8	1RU
1	16	1RU
1	32	2RU
2	8	1RU
2	16	2RU
4	8	2RU
8	4	2RU

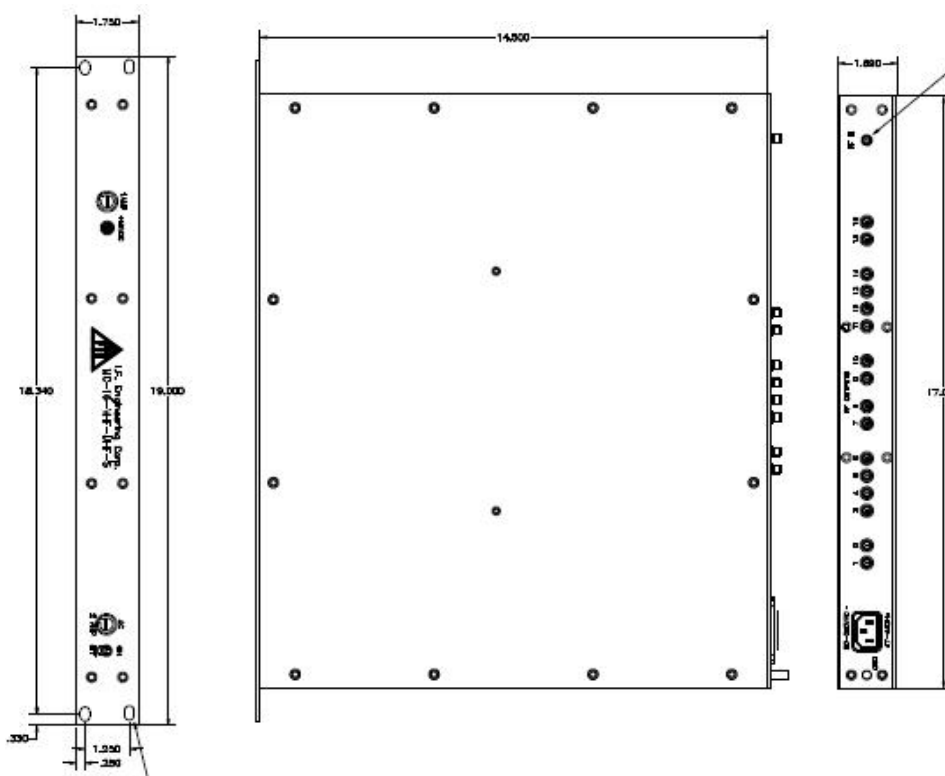
For additional product specifications, consult the factory

Broadband MW Multi-Coupler

0.5 GHz to 18 GHz

Product Features

- Eight to Sixteen Outputs
- Impedance – 50 Ohm
- High Dynamic Range
- Excellent Gain Flatness
- Gain Control (Optional)
- Passive or Unity Gain
- RF Connectors (In/Out) – SMA



	MC-8-MW-222-S			MC-16-MW-223-S		
Number of Input Ports	1			1		
Number of Output Ports	8			16		
Frequency Range (GHz)	0.5 – 18					
	Min	Typ	Max	Min	Typ	Max
Gain (dB)	+0	+2	+4	-1.5	+0.5	+2.5
Gain Flatness (dB)		+2.5			+2.5	
Isolation (dB)						
Out/Out	25			18		
VSWR						
Input			2.0:1			2.2:1
Output			2.0:1			2.0:1
Impedance (Ohms)		50			50	
Noise Figure (dB)			+9			+9
OP1dB Compression Pt (dBm)	-16			-19		
OPIP3 (dBm)	-2			-5		
OPIP2 (dBm)	+8			+5		
Operating Temperature (°C)	0		50	0		50
Weight (lbs.)		8			10	
AC Power	85 – 264 VAC, 47-63 Hz, 3W (Max)					
Size (in.)	1.75 H x 19 W x 14.5 D					

L-Band Distribution Amplifier

950 MHz to 2150 MHz

Description

Developed for applications that require synchronous video or data signal splitting and distribution used in applications such as:

- Satellite Ground Stations
- Satellite Teleports
- SNG Mobile Platforms

Signal is equally split in 8 or 16 output signals with an excellent frequency response and minimum Insertion Loss.

Product Features

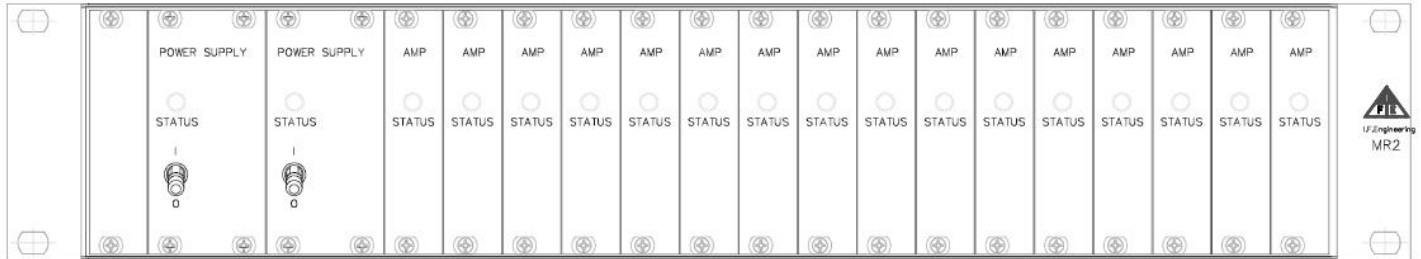
- Amplifier Distribution Module
- 8 Inputs/ 8 Outputs or 16 Inputs/ 16 Outputs
- Impedance – 50 Ohm, 75 Ohm or mixed
- Low Insertion Loss
- Redundant Power Supplies (Optional)
- BIT (Built In Test)
- RF Connectors (In/Out) – F, SMA or BNC
- CE Certified

Input / Output Interconnectivity

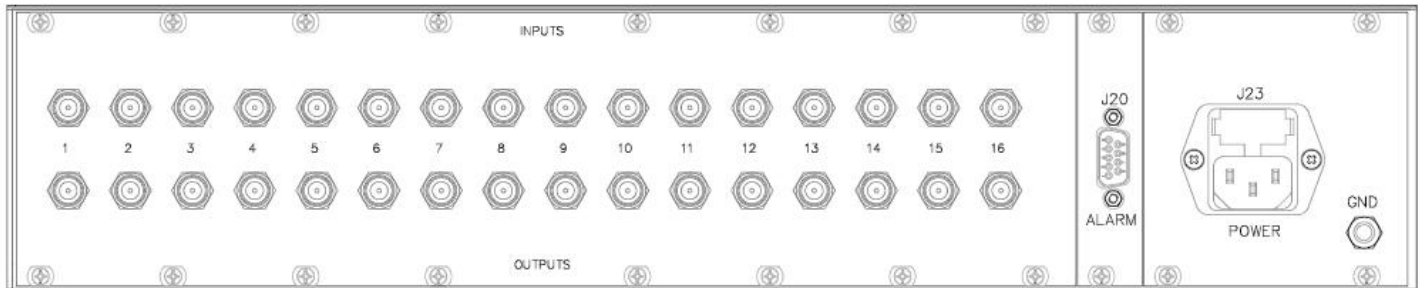
From 1X8 to 32X32

For a special design, consult the factory

	MR-2-16-AM-LB3-20-F
Number of Input Ports	16
Number of Output Ports	16
Frequency Range (MHz)	950 – 2150
Gain (dB) Max.	+20
Frequency Response (dB) Min/Max	± 1
Noise Figure (dB) Max	5
Input P1dB (dBm)	-10
IP3 (dBm) Min	+5
VSWR (Max)	
Input	1.8:1
Output	1.8:1
10 MHz Insertion Loss (dB) Max	2.0
DC Pass-Through	24 VDC, 500 mA
RF Connectors	F, 75 Ohm
Weight (lbs.)	25
AC Power	90-260 VAC, 47-63 Hz, 50W (Max)
Size (in.)	3.46 H x 19 W x 13 D
Operating Temperature (°C)	-10 to +60



Front Panel View



Rear Panel View

L-Band Redundant Amplifier

950 MHz to 1450 MHz

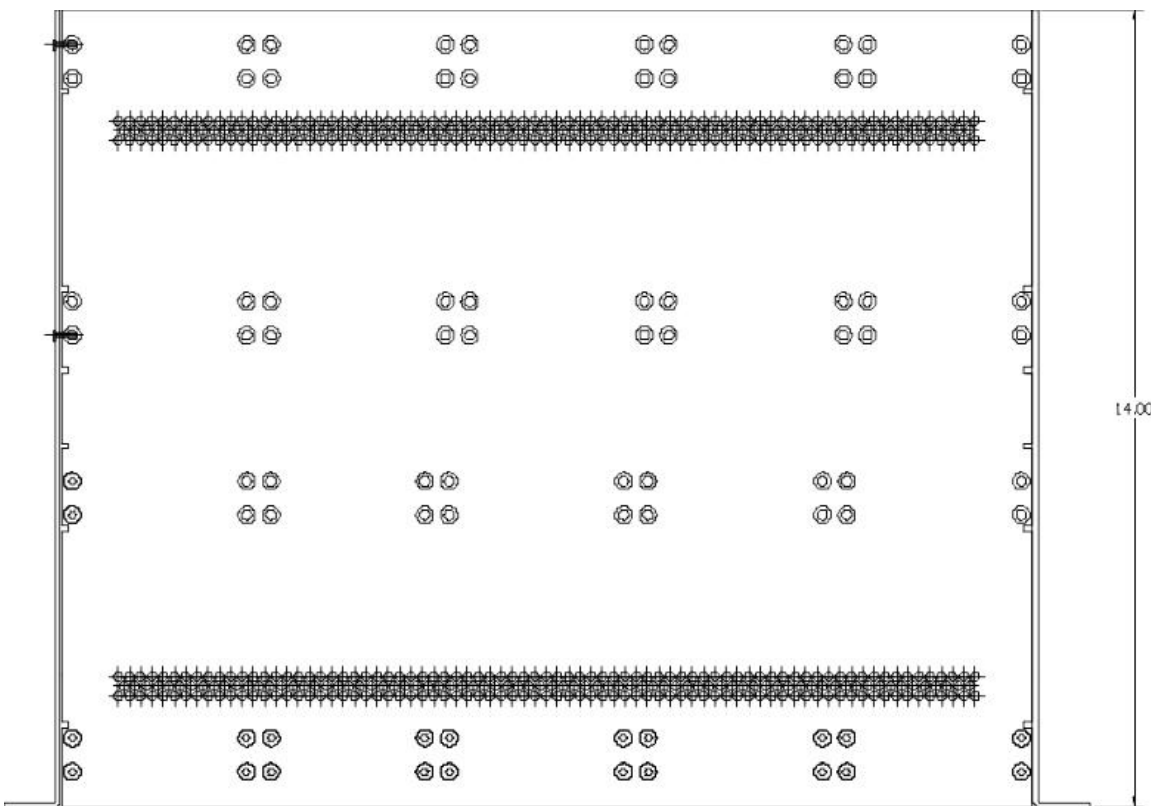
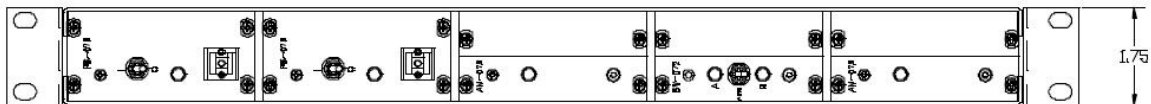
Description

Developed for applications that require automatic amplifier back up and redundancy that may be used in:

- Satellite Ground Stations
- Satellite Teleports
- SNG Mobile Platforms

Internal amplification is done via two amplified signal paths which automatically compensate each other in case of a failure.

	RA-LB-28-S
Frequency Range (MHz)	950 – 1450
Gain (dB) Max.	+28 ± 2
OP1dB Compression Pt (dBm)	+18
OIP3 (dBm) Min	+30
Noise Figure (dB) Max	4
VSWR (Max)	
Input	1.5:1
Output	1.5:1
RF Connectors	SMA
Operating Temperature (°C)	0 to +50



Rear Panel View

Ordering Information

At I.F. Engineering Corp you are not limited to the products in this catalog, as it is intended to be used as a guide in selecting components or switch matrices for a given application. Requests for modifications of standard items and their specifications in order to meet specific needs are our business. As we proudly state, *Your Challenge is Our Progress.*

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Please visit the websites to request quotations, download product information, find a listing of our manufacturer's representatives and company contact information.

Ordering

Information found in this catalog or on our websites should be sufficient to select a particular product. In rare cases where additional information is required, contact I.F. Engineering Corp directly or your local manufacturer's representative.

When placing your order, please include the part number, product name, quantity, quotation number and shipping instructions. In the case of a custom product, a full description of the desired features must accompany the order to avoid errors. Send orders to your manufacturer's representative or direct to:

I.F. Engineering Corp
3 Foshay Road
Dudley, MA 01571 USA

Order Acknowledgements will be processed via any of the following methods; U.S. mail, telephone, fax, or email.

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