

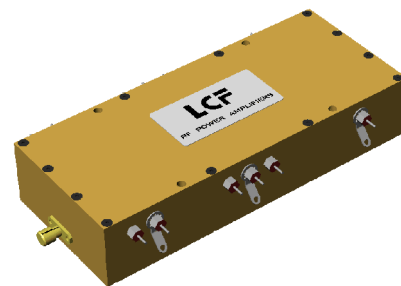
Model A078
P/N 30-0.3-100-40-E3

RF POWER AMPLIFIER MODULE

0.3 - 30 MHz

100 Watts

Gain: 40 dB Voltage: 24/28 VDC



Small Size
High Efficiency
Low Even Order Harmonics
Rugged

PERFORMANCE

PARAMETER	SPECIFICATIONS	COMMENTS
RF Output Power	100 Watts cw minimum	Class AB linear
Frequency Range	0.3 - 30 MHz	
Gain	40 dB minimum	50 dB typical
Main DC Supply	24/28 VDC, 11 Amp maximum	7 to 9 Amp typical at 100 W output (see Note 1)
Bias Supply	15 VDC, 10 mA maximum	Provides enable/disable control (see Note 2)
Efficiency	45 - 50 % typical	
Harmonics / Spurious	See Plot / Spurious <-60 dBc	
In / Out Impedance		Designed for small size, high efficiency; compatible with 50 ohms
RF In / Out Connectors	SMA Female	
DC Connectors	Solderable filtered feed throughs with ground lugs	
Size / Weight	6.0" x 2.5" x 1.25" / < 1 lb.	
Operating Temperature	-50 °C to +60° C	Consult technical support for higher temperature operation.
Humidity	95 - 100 %	
Vibration	110 G Shock	
Altitude	50,000 feet	

OPEN ARCHITECTURE FEATURES

1. Separate bias inputs and power supply feed throughs permit either Class A or Class AB biasing. Bias off disables amplifier
2. Separate power supply terminals for each push/pull section permit individual fuse protection.
3. A low loss output matching network provides high efficiency and optimum stability.

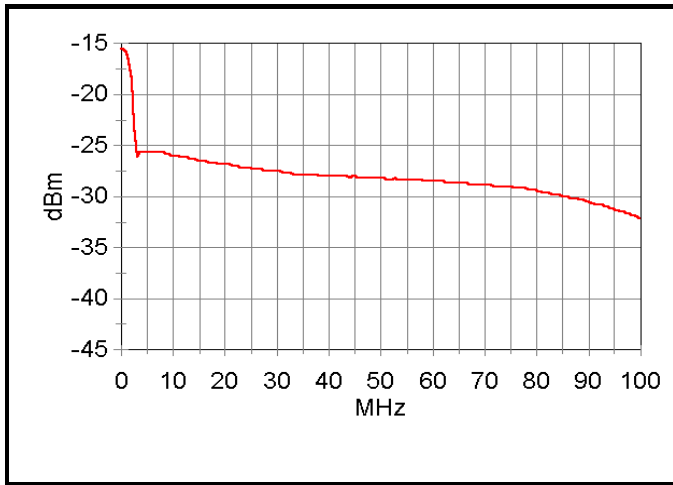
OPTIONS AVAILABLE

- Higher powers through multiple module combining
- Inside wiring with only one DC connection
- Detailed Application Notes
- Transmit/Receive Subsystems
- TTL compatible enable/disable control
- Narrower band optimization. (no additional cost)
- Complete rackmount 120/220 VAC systems
- Test fixture with heat sink, fuse protection, and thermal shutdown

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ELECTRICAL PERFORMANCE

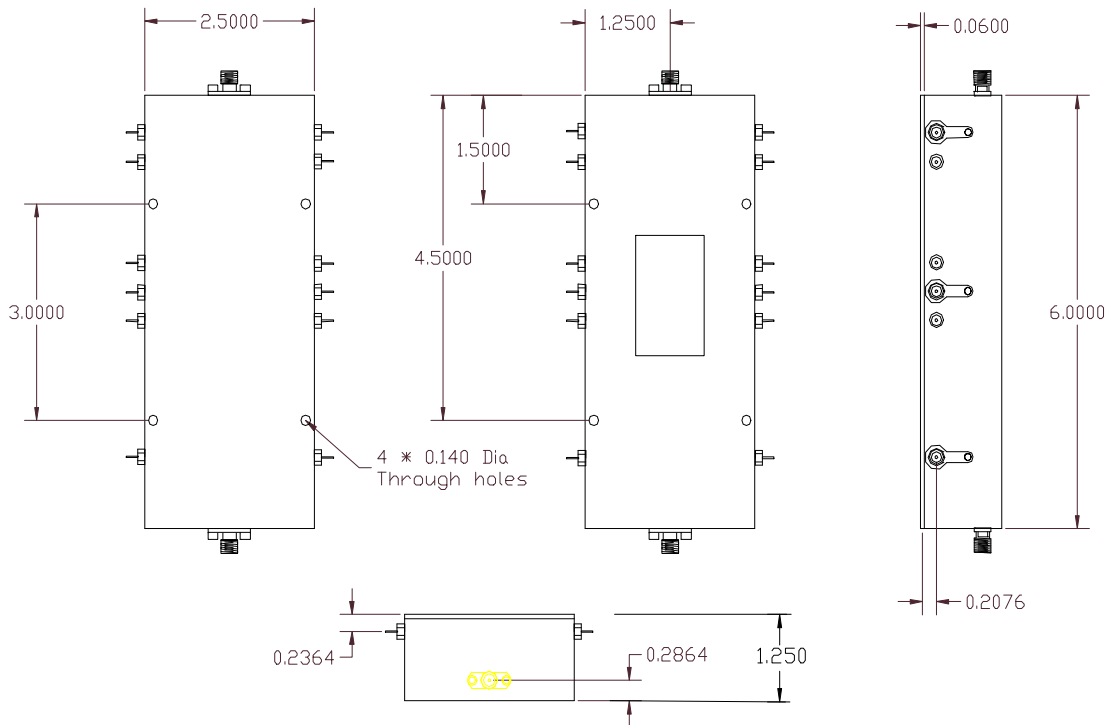


Small Signal Gain (-70 db reference)

HIGH POWER DATA (Typical)

Freq (MHz)	Input Power (dBm)	Output Power (W)	Drain Voltage (V)	DC Current (A)	DC Power (W)	Eff (%)	Gain (dB)
0.30	2.40	102.10	23.60	9.01	212.64	48.02	47.69
1.00	0.20	100.40	23.67	7.51	177.76	56.48	49.82
5.00	-0.21	100.30	23.69	7.19	170.33	58.89	50.21
10.00	0.30	101.40	23.69	7.23	171.28	59.20	49.76
20.00	1.20	102.50	23.67	7.55	178.71	57.36	48.91
30.00	1.80	100.80	23.66	7.82	185.02	54.48	48.23

MECHANICAL OUTLINE



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