

# **AMPLIFIER MODULE**

1 - 30 MHz 100 Watts

Gain: 35 dB Voltage: 24 VDC



## Small Size High Efficiency Rugged

## **PERFORMANCE**

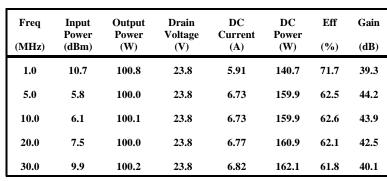
PARAMETER	SPECIFICATIONS	COMMENTS
RF Output Power	100 Watts cw minimum	
Frequency Range	1 - 30 MHz	
Gain	35 dB minimum	40 dB typical
Main DC Supply	24 VDC, 7 Amp maximum	6 to 7 Amp typical at 100 W output (See Note 1)
Bias Supply	15 VDC, 10 mA maximum	Provides enable/disable control (See Note 2)
Class	AB Linear	
Efficiency		60-70% typical
Harmonics	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 Connections	Solderable filtered feed throughs with ground lugs	
Size	4.84" x 2.0" x 1.0"	Excluding connectors/feet
Weight	< 14 oz.	
Operating Temperature	-50°C to +60°C	Consult technical support for higher temperature operation.
Operating Humidity	95-100%	
Vibration	110 G Shock	
Altitude	50,000	

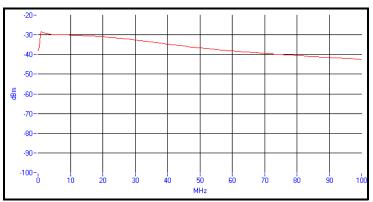
LCF ENTERPRISES 651 Via Alondra, Building 712 Camarillo, CA 93012 USA E-mail: info@lcfamps.com MODEL: A045 P/N 30-1-100-35-A3 Tel: (805) 388-8454 Fax: (805) 389-5393 Web: www.lcfamps.com

### ELECTRICAL PERFORMANCE

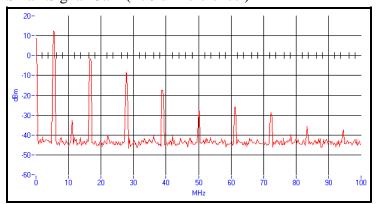
### HIGH POWER TEST DATA

(Typical)



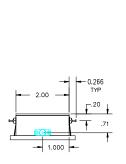


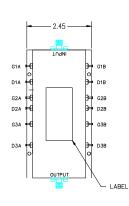
Small Signal Gain (-70 dB reference)

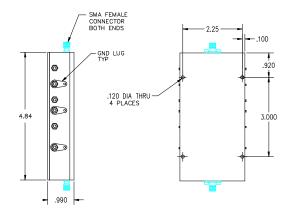


## **MECHANICAL OUTLINE**

Harmonics (100W output)







#### **OPEN ARCHITECTURE FEATURES**

- 1. Separate power supply feed throughs for each push/pull section permit individual fuse protection, section monitoring, and diagnostics. Single power supply terminal available.
- 2. Separate bias inputs permit adjustment of each push/pull section permit optimization of gain vs. distortion vs. efficiency. Bias off disables amplifier. Single bias terminal, TTL compatible enable/disable, or no bias terminal available.
- 3. A low loss output matching network provides high efficiency and optimum stability.
- 4. Separate bias inputs and power supply feed throughs permit either Class AB (standard) or Class A biasing.

#### AVAILABLE

- Higher powers through multiple module combining
- Inside wiring with only one DC connection
- Detailed Application Notes
- TTL compatible enable/disable control

- Test fixture with heat sink, fuse protection, and thermal shutdown
- Complete rackmount systems with integrated power supply
- Transmit/Receive subsystems
- · Narrower band optimization available at no additional cost

Copyright © 1998 LCF Enterprises. All rights reserved.

#### LCF ENTERPRISES

651 Via Alondra, Building 712 Camarillo, CA 93012 USA E-mail: info@lcfamps.com MODEL: A045 P/N 30-1-100-35-A3 Tel: (805) 388-8454 Fax: (805) 389-5393 Web: <u>www.lcfamps.com</u>