

MODEL A142 **RACKMOUNT SYSTEM** **290-320 MHz** **120 Watts**



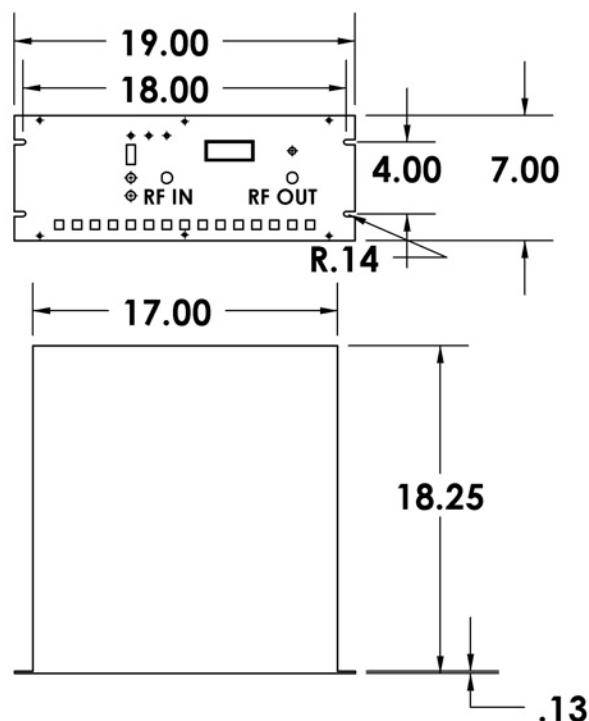
Rugged, Economical

P/N 320-290-120-40-RM

PERFORMANCE

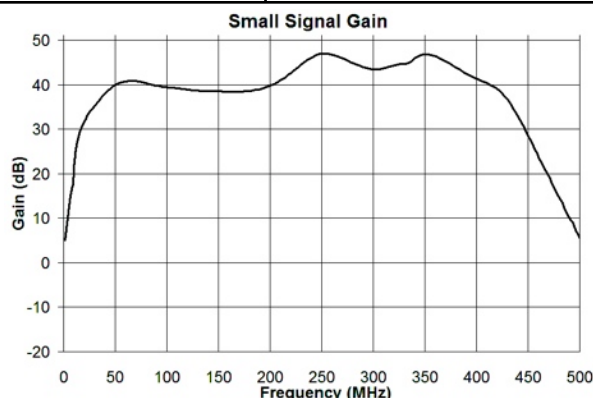
Parameters	Value
Frequency	290-320 MHz
Power	120 Watts
Quiescent Current	1.5 A Typical
Class	AB Linear
Main Supply	120 VAC 60 Hz / 240 VAC 50 Hz
Current Under RF Drive	9.5 A Current Limit (Nominal)
Gain	40 dB Typical
Spurious	< -60 dBc
Size	19.00" x 18.00" x 7.00"
Weight	25 lbs
RF In/Out Connectors	Type N Female
Over Temp Protection	50 C
Operating Humidity	95% - 100%

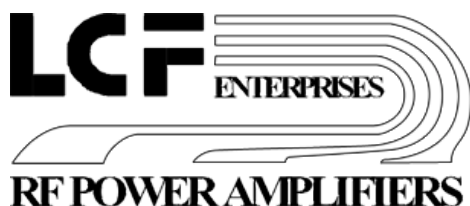
Mechanical Outline



Rackmount Features

- Thermal shutdown above 50 C
- Current limit provides amplifier and system protection
- Front panel indicators
- Forced air cooling system (self-contained fans)





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Our solid-state amplifier systems are self-contained and fully protected. The system includes a power supply, amplifier module, cooling, additional protection features (see below), front panel indicators and monitors. The system can stand alone on a bench or be rack mounted.

GENERAL SPECIFICATIONS

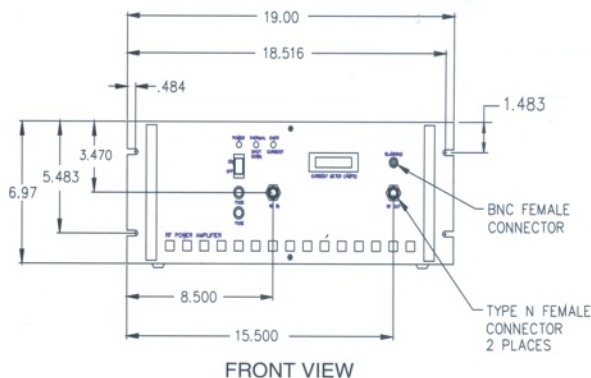
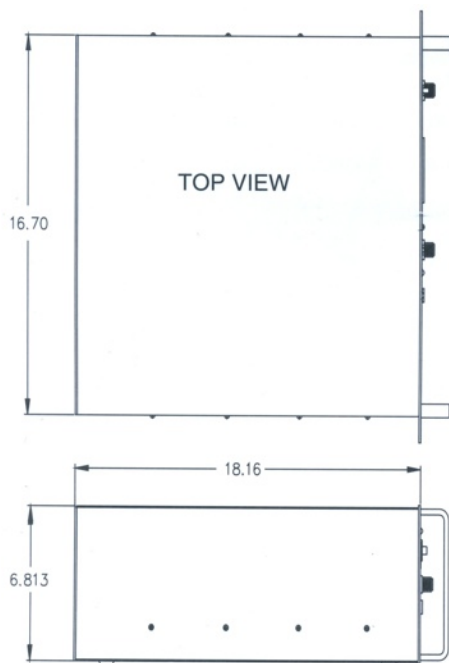
Size: 19.00" x 18.00" x 7.00" (W x L x H)
 47.5 cm x 45 cm x 17.5 cm
 Weight: 25 lbs (11.34 Kg)
 Cooling: Forced air (self-contained fans)
 AC Power: 120 VAC - 60 Hz / 240 VAC - 50 Hz
 RF Connectors: Type N Female
 Panel Display: RF In, RF Out, Current Meter, Blanking (optional),
 Thermal Shutdown, Power Light, Over Current
 Warning, Fuses



RUGGED PROTECTION SYSTEM

The amplifier rack-mount system has multiple protection features which provide rugged, reliable operation under conditions of amplifier abuse. Specifically,

1. The amplifier module has been designed to have intrinsic protection against bad loads. Also, the module is operated at 24 VDC instead of its rated 28 VDC for an extra **margin of safety** from voltage breakdown.
2. The amplifier system has **automated current limiting**. A current limiting condition may arise when operating into a high VSWR load. The system will not shut down under current limiting conditions and will continue to operate and automatically and transparently recover.
3. Electrical **fuse protection** is also provided to protect the amplifier module in the event the system is overdriven by a fast pulse which exceeds the response time of the automatic current limiting.



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