

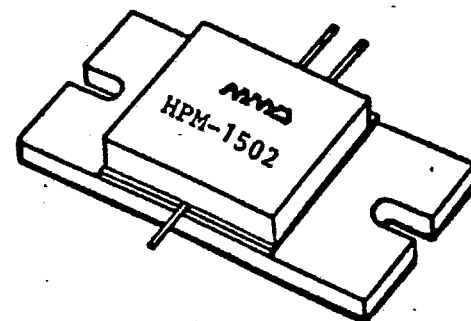
PRODUCT BULLETIN

HPM-1502
50-1500 MHz, 2 WATT
AMPLIFIER MODULE

(Preliminary 3/20/86)

The HPM-1502 is a wideband Ga As FET amplifier which covers the 50-1500MHz frequency range and offers a typical gain of 10dB and typical output power of +34dBm at the 1dB gain compression point. The module incorporates an internal differential matching design which significantly reduces the second order intermodulation products.

Packaging of the HPM-1502 is designed for the users convenience, the "drop-in" flange configuration being ideal for efficient heat transfer and ease of mechanical layout.

AMPLIFIER MODULE

ELECTRICAL SPECIFICATIONS
@ 0° to +50° Flange Temperature

FREQUENCY RANGE:	50-1500 MHz
GAIN:	8.0dB Minimum
POWER OUTPUT: (at 1dB compression)	+33dBm Minimum
GAIN FLATNESS:	±1.0dB Maximum
NOISE FIGURE:	8 dB Maximum
VSWR, Input/Output:	2.0:1/2.0:1 Maximum
TWO-TONE 3rd order Intercept point:	+43 dBm typical
TWO-TONE 2nd order Intercept point:	+60 dBm typical
DC CURRENT @ +15 volts:	1000mA typical

FEATURES:

- 50 - 1500 MHz
FREQUENCY RANGE
- 2.5 WATT TYPICAL
POWER OUTPUT
- INTERNAL
DIFFERENTIAL
MATCHING
- 10 dB TYPICAL GAIN
- DROP-IN
CONFIGURATION

MAXIMUM RATINGS:

DC VOLTAGE:	+16 Volts
CONTINUOUS RF INPUT POWER:	+27.0dBm.
OPERATING FLANGE TEMP.:	-55°C to +71°C
STORAGE TEMPERATURE:	-62°C to +125°C.

TYPICAL PERFORMANCE @15V UNLESS OTHERWISE NOTED.

