



MODEL KMA2040-M15
200 WATTS CW
1 to 25 MHz

AR Modular RF's Model KMA2040-M15 is a RoHS compliant RF power amplifier module designed for OEM applications or integration into a user system. The module is comprised of a printed wiring assembly housed in a machined aluminum enclosure with feed-through capacitive terminals for connection to an external DC power source. Cooling requirements (defined below) and protection of the output devices against output mismatch are the responsibility of the user.

SPECIFICATIONS

RATED POWER OUTPUT	200 Watts
INPUT FOR RATED OUTPUT	2.0 mW maximum
CLASS OF OPERATION	Class A
FLATNESS.....	± 1.5 dB maximum
FREQUENCY RESPONSE	1 MHz - 25 MHz
GAIN	52 to 56 dB
OUTPUT POWER STABILITY	≤0.05 dB per 4°C nominal. Achieved by design, customer responsible for system level test to confirm performance.
INPUT IMPEDANCE	50 Ohm nominal
OUTPUT IMPEDANCE	50 Ohm nominal
MISMATCH TOLERANCE	2:1 maximum
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
NOISE FIGURE	12 dB typical
HARMONIC DISTORTION.....	- 11 dBc maximum
PRIMARY POWER	28 VDC @ 16 A (Solder terminals)
RF CONNECTORS	N female
COOLING.....	Maximum allowable enclosure temperature 60 °C
THERMAL SENSING:.....	160°F Normally Open Thermal Switch, 10A



MODEL CONFIGURATIONS

MODEL NUMBER	HEATSINK	HEATSINK SPECS	WEIGHT	SIZE (WxHxD)
KMA2040-M15	YES	.95 kg, 38.2 sq.in/1", 1.7 °C/W/3"	2.65 kg (5.83 lb.)	11.68 x 7.37 x 26.67 cm 4.6 x 2.9 x 10.5 in

OUTLINE DRAWING

Reference Only

