



MODEL KMW2026M5
30 WATTS CW
30 MHz - 512 MHz W/BREAK POINT

The Model KMW2026M5 is an RF power amplifier module for OEM applications or integration into a user system. In addition, the KMW2026 has a 'break' in the amplifier chain with an SMA connector out and SMA connector in, allowing an external filter to be fitted. Multi-stage blanking is incorporated for minimum broadband noise when unkeyed. Cooling requirements defined by the data provided below and protection of the output devices against output mismatch are the responsibility of the user.

SPECIFICATIONS

POWER CW @ 1db COMPRESSION.....	30 Watts min
FREQUENCY RANGE.....	30 MHz - 512 MHz*
FREQUENCY RANGE	108-174MHz
GAIN.....	39 dB min**
FLATNESS.....	± 0.6 dB**
AM DISTORTIONS.....	6.5% max***
FREQUENCY RANGE	225-400MHz
GAIN.....	38 dB min**
FLATNESS.....	± 1 dB**
AM DISTORTIONS.....	5% max***
HARMONICS.....	Second = - 22 dBc avg; Third = - 13 dBc avg
BROADBAND NOISE.....	- 124 dBm/Hz avg
ON / OFF RATIO	- 75 dBc max
ON / OFF TIME.....	50 µsec max
OPERATING TEMP	- 10/+55°C @ enclosure
SHUTDOWN TEMP	90 °C @ enclosure
PRIMARY POWER	28 V _{dc} @ 4.8 A avg
SIZE (H X W X D).....	1.75" X 3.00" X 4.50"

*450-512MHz up to 5 dB gain roll off with full rated power.

**Gain/Flatness tested @ 20W CW with 6dB attn @ break point.

***AM Distortion tested @ 15W CW, +90% Mod, DC@ 28.2, Temp @ enclosure 40°C, input Distortion 0.5% max.

INTERFACE / CONNECTOR

INPUT / OUTPUT / BREAKPOINTS	SMA
POWER / CONTROL	filtered 9-PIN D-SUB
OVERTEMP STATUS.....	≥ 4V normal, ≤ 0.5V OverTemp
ON / OFF CONTROL (REQUIRED 20Ma source).....	≤ 0.5V OFF, ≥ 4V ON

9-PIN D-SUB PINOUT

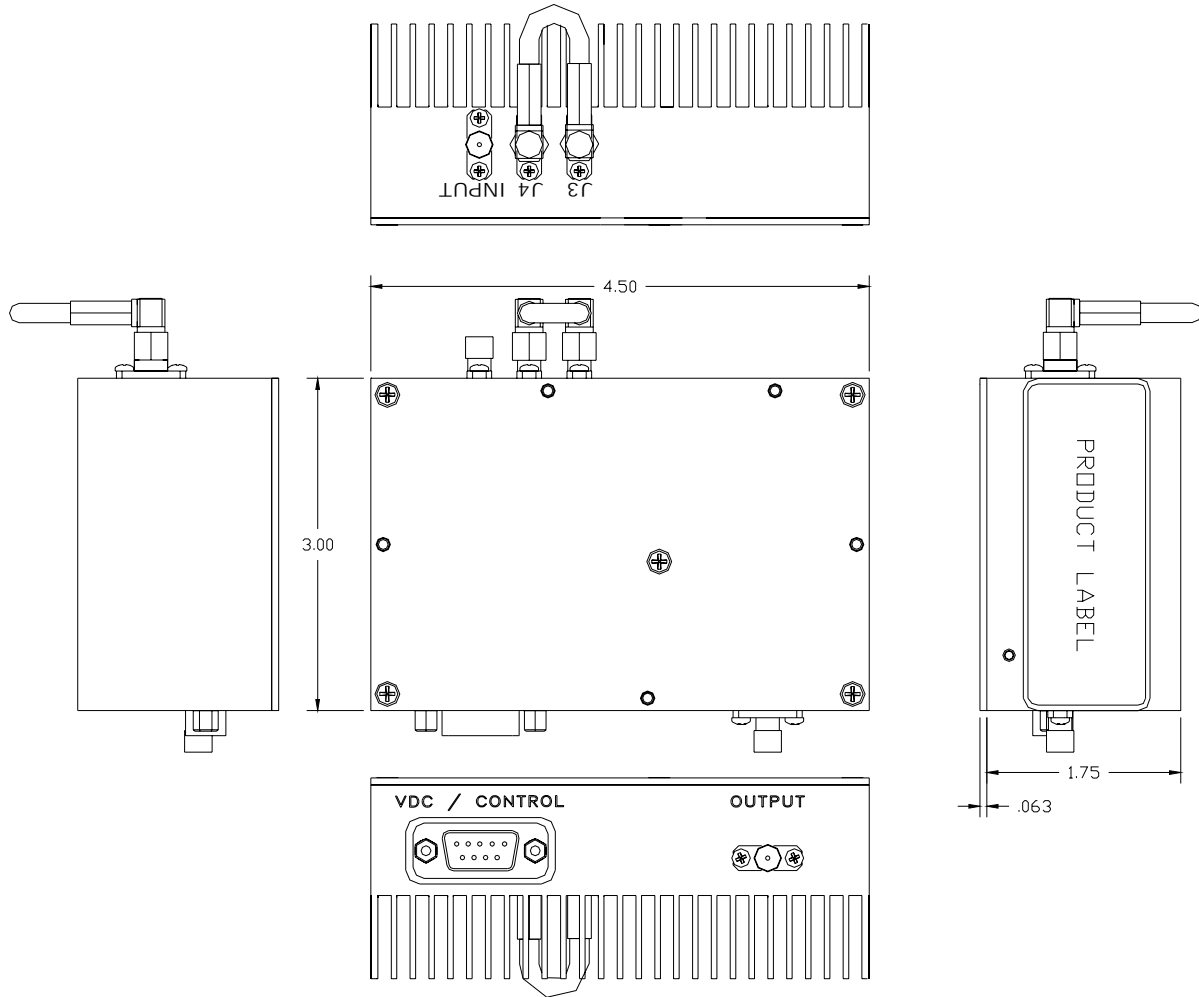
PIN 7, 8, 9..... +28 V

PIN 4..... On/Off

PIN 6..... Not used

PIN 1, 2, 3.....-28 V ground

PIN 5..... OverTemp. Status



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