



**MODEL KMA1001  
1 WATTS CW  
225-400MHz**

The Model KMA1001 is a class A RF power amplifier module for OEM applications or integration into a user system. 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.....                     | 1 Watt                        |
| FREQUENCY RANGE.....           | 225-400MHz                    |
| GAIN .....                     | 41 dB min                     |
| FLATNESS .....                 | ± 0.5 dB                      |
| HARMONICS.....                 | Second = - 30dBc max          |
| .....                          | Third = - 22 dBc max          |
| BROADBAND NOISE.....           | - 131 dBm/Hz avg              |
| ON / OFF RATIO .....           | - 90 dBc max                  |
| ON / OFF TIME.....             | 60 µsec max                   |
| OPERATING TEMP .....           | - 10/+55°C @ ambient          |
| SHUTDOWN TEMP .....            | 80 °C @ enclosure             |
| PRIMARY POWER .....            | 28 V <sub>r</sub> @ 0.9 A max |
| SIZE (H X W X D) KMA1001 ..... | 4.50" X 3.00" X 1.75"         |

**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      |

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