

The LA10-545-GMS Amplifier has been specifically developed for high Intercept performance in the RF power range of 1-10W. Careful choice of components, has provided the user with high MTBF and offers in excess of 80,000Hrs MTBF when calculated using MIL-HNDBK-217F. The amplifier is housed in a rugged machined aluminium box. The box is flanged to allow mounting to a heat-sink.



Specification:

Parameter

Limits

| | |
|--------------------------------------|---------------------------------------|
| Frequency Range | 5Mhz to 45MHz |
| Power Output | 10W min CW |
| Gain (5-40Mhz) | 40 +/-1dB |
| Gain (40-45MHz) | 39 +/-1dB |
| Input Impedance | 50 Ohms |
| Output Impedance | 50 Ohms |
| Input return Loss | >10dB (VSWR Better than 2:1) |
| Output Return Loss | >10dB (VSWR Better than 2:1) |
| Noise Figure | <11dB |
| Harmonic Distortion @ 3.2W 10MHz | |
| Second Harmonic | <-48dBc |
| Third Harmonic | <-32dBc |
| Third order Intercept Point (Output) | >+52dBm (Two tone test 1W/Tone) |
| Output Protection (10W) | Operates into any load with no damage |
| Operating Case Temp | +5 Deg. C to +50 Deg C. |
| M.T.B.F. | >80,000Hrs |
| DC Supply | 24V @ max of 4A for 10W CW. |
| Input and Output Connectors | SMA |
| Case Size | 5" x 3" x 1" (Excluding Flange) |

Notes::

- 1/Standing current, no signal is approx 2.3A.
- 2/Max current is 4A at 10W output, typically 3.6A.
- 3/THE HOUSING REQUIRES A HEATSINK