

6000-10000MHz

The model OC-LA6-10K55A is a broadband, low noise, high gain limiting amplifier operating between 6000 MHz and 10000 MHz and handling a wide dynamic range from -55dBm to +10 dBm. The employment of FET devices with good consistency in manufacturing ensures this module exceptional amplitude limiting performance. It is the key component of the electronic system.

Model Number: OC-LA6-10K55A

FEATURES:

- Broadband;
- Low Noise;
- High Gain;
- Small Size & Light Weight;
- Good Consistency;

ELECTRICAL SPECIFICATIONS @ +12.0VDC, 25°C, 50Ω

| Parameter | Symbol | Min | Typ | Max | Units |
|----------------------|------------------|------|-----|-------|-------|
| Operating Frequency | BW | 6000 | | 10000 | MHz |
| Input Power | P _{in} | -55 | | +10 | dBm |
| Limited Output Power | P _{out} | +12 | | +16 | dBm |
| Noise Figure | NF | | 4 | | dB |
| Harmonic Rejection | H | | 12 | | dBc |
| VSWR @ Input Port | IN VSWR | | | 2.0:1 | |
| VSWR @ Output Port | OUT VSWR | | | 2.0:1 | |
| In/Output Impedance | Impedance | | 50 | | Ω |
| Operating Voltage | VDC | | +12 | | Volt |
| DC Current | IDD | | | 500 | mA |

MECHANICAL SPECIFICATIONS

| Parameter | Value | Units | Notes |
|------------------------|----------------------------|-----------|---------|
| Dimensions | 105x30x20 [4.13x1.18x0.79] | mm [inch] | Maximum |
| Weight | 180 [0.40] | g [lbs] | Maximum |
| RF Connectors Input | SMA, Female | | |
| RF Connectors Output | SMA, Female | | |
| DC Interface Connector | Feed-through capacitor | | |

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

| Parameter | Minimum | Typical | Maximum | Units | Notes |
|------------------------------------|---------|---------|---------|-------|---------|
| Operating Temperature | -20 | | 60 | °C | |
| Non-operating Temperature | -40 | | 65 | °C | Storage |
| Relative Humidity (non-condensing) | | | 95 | % | |

Absolute Maximum Rating

| | |
|-------------------------------------|---------|
| Input RF drive level without damage | +15 dBm |
| DC Voltage | +15 V |

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OUTLINE DRAWING (All dimensions in mm [inch])

