

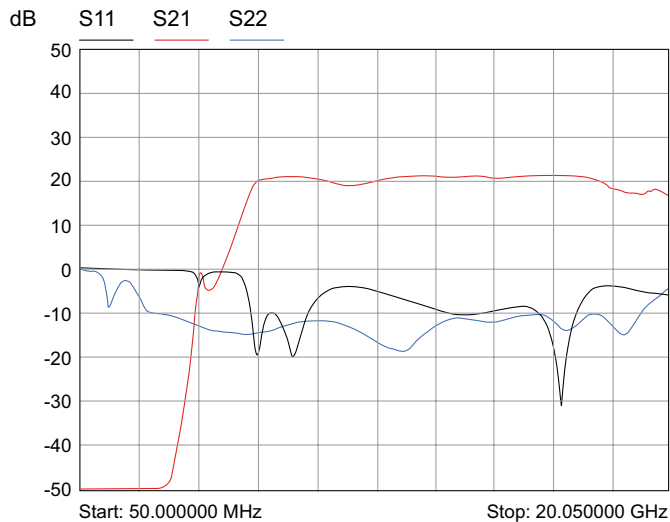
The 14629 is one of a family of solid-state Microwave Modules available from C-MAC MicroTechnology, ideal for Satellite Communications, Product Development, Point to Point, Radiolocation and Test applications.

Key Features:

- Ku Band (12GHz to 18GHz) operation
- Response extends to 8GHz (X Band)
- P1dB - better than 13dBm at 25°C
- Noise Figure of less than 2.5dB at +25°C
- Better than 20dB midband gain at +25°C
- DC - 3GHz input rejection filter
- Internal power supply regulation
- Power On/Off control
- RoHS compliant
- 3.3V / 5V operation (control)
- Operating temperature range: -25°C to +70°C



14629-000



Typical small-signal response

The 14629 is available with Male or Female SMA connectors in any combination. Other connector types are available on request.

Order Code:

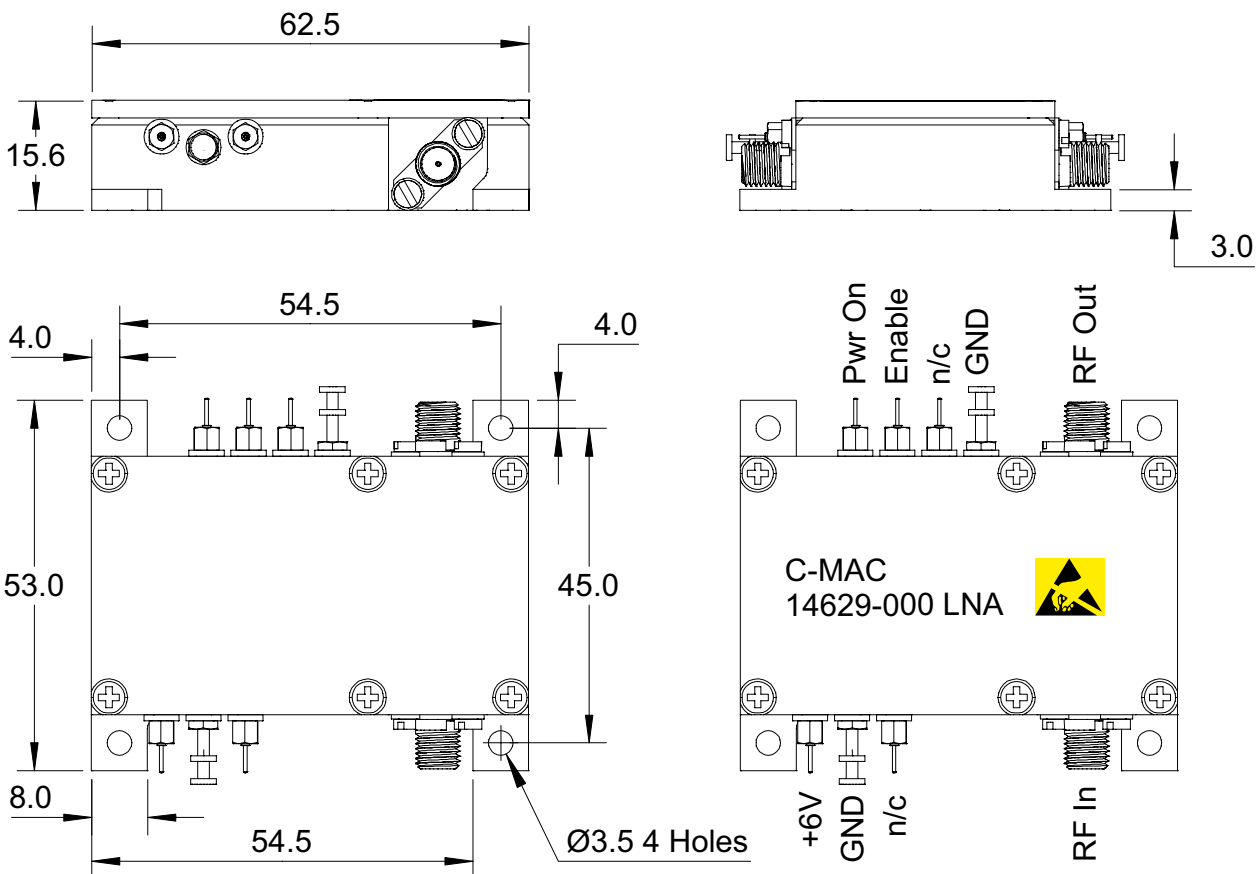
14629 - 0 0 0

| | | |
|---|--------------|---------------|
| ↑ | RF In | RF Out |
| 0 | FSMA | FSMA |
| 1 | FSMA | MSMA |
| 2 | MSMA | FSMA |
| 3 | MSMA | MSMA |

| Symbol | Function | Conditions | Minimum | Typical | Maximum |
|------------|---------------------------------------|---|---------|---------|---------|
| +6V | Positive Power Supply | | 4 V | | 7 V |
| GND | Ground Return | | | | |
| Pwr On | Control - Amplifier Power On | | | | |
| Enable | Control - RF Output Enable | | | | |
| I_{pD} | Positive Supply Current, Disabled | Pwr On = V_{Low} Enable = V_{Low} | | 3 mA | |
| I_p | Positive Supply Current, Amplifier On | Pwr On = V_{High} Enable = V_{Low} | 57 mA | 67 mA | 90 mA |
| V_{High} | Control Logic High Voltage | | 2.0 | | |
| V_{Low} | Control Logic Low Voltage | | | | 0.8 |



This module is rated as a JEDEC Class 1A (susceptible to ESD from 250V to <500V) static sensitive device. Observe precautions for handling ESD sensitive devices.



Notes:

1. Aluminium Package with hexavalent-free passivation.
2. Maximum recommended soldering temperature 260°C.
3. Specification subject to change without prior notice.

Dimensions in mm.

For further information contact us at:

C-MAC MicroTechnology

South Denes, Great Yarmouth,
Norfolk, NR30 3PX, UK

Tel: +44 (0) 1493 743 100

Email: info@cmac.com

