

## TECHNICAL BULLETIN

Wide Band Switching Limiter

**E16701-01-05**

**Rev.C**

The switching limiter is a RF module operating in 10MHz – 6000MHz band and, generally, used for receiver protection by high power interfering signals as jamming generators, typically implemented in ECM systems. It is capable to blank the RF input of the receiver when the RF level is higher than a fixed threshold, generally close to the maximum RF input level of the receiver.

### Absolute Maximum Ratings

| Parameter                | Rating      | Units |
|--------------------------|-------------|-------|
| Supply Voltage           | 30          | Vdc   |
| Operating Temperature    | -55 to +125 | °C    |
| Input Power CW           | 1           | W     |
| Input Power pulsed (1us) | 100         | W     |

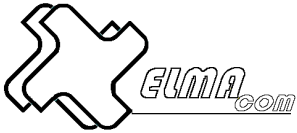
### Electrical Characteristics

| Parameter   | Values    |         | Units |
|---|-----------|---------|-------|
| Operative Frequency Range   | 350-6000  | Min-Max | MHz   |
| Insertion Loss  | 3         | Max     | dB    |
| Return Loss   | -10       | Max     | dB    |
| CW Input Level  | 30        | Max     | dBm   |
| Pulsed Input Level (1us)  | 100       | Max     | W     |
| Switch Threshold Normal mode  | -15 ÷ -10 | Min-Max | dBm   |
| Switch Threshold Blanking mode                                      | -20 ÷ -10 | Min-Max | dBm   |
| Input-Output Isolation (when limiter is switched off)               | 40        | Min     | dB    |
| 2 <sup>nd</sup> Harmonics (for input levels up to switch threshold) | 40        | Nom     | dBc   |
| 3 <sup>rd</sup> Harmonics (for input levels up to switch threshold) | 25        | Nom     | dBc   |
| In band Spurious  | -90       | Max     | dBm   |
| Power Consumption @5V   | 50        | Max     | mA    |

### Switching Limiter Electrical Performance

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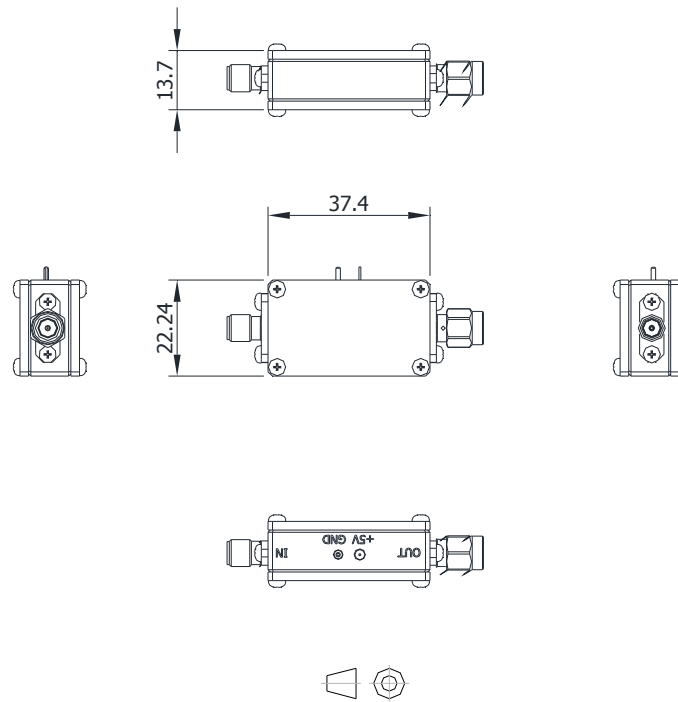
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## OUTLINE DRAWING



(dimensions in mm)

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