DESCRIPTION

The B3LT1649 is a solid state limiter which provides effective receiver protection at power levels up to 25 kW. A filter network is included to give broadband protection against magnetron-generated spurious and second harmonic signals.

CHARACTERISTICS

(at 20°C ambient, see note 1)

Frequency range ...................... 9.36 to 9.46 GHz
Return loss (see note 2) ................ 20 dB min
Insertion loss (see note 2) .......... 1.0 dB min
Total peak leakage (see note 3) ...... 100 mW max
Recovery to –3 dB (see note 3) ...... 1.3 µs max

MAXIMUM AND MINIMUM RATINGS

<table>
<thead>
<tr>
<th>MIN</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input power (peak)</td>
<td>-30 kW</td>
</tr>
<tr>
<td>Duty ratio</td>
<td>0.001</td>
</tr>
<tr>
<td>Pulse duration</td>
<td>1.5 µs</td>
</tr>
</tbody>
</table>

Ambient temperature:
- storage: -55 to +90 °C
- operating: -40 to +90 °C

OUTLINE (All dimensions without limits are nominal)

GENERAL

Overall dimensions .................. 41 x 41 x 35 mm nom
Waveguide size ....................... WG16 (WR90)
Coupler ................................... mates with UG39/U
Finish .................................. aluminium
Mounting position .................... any
Net weight .............................. 100 g approx.

NOTES

1. Parameters change over the temperature range. Consult e2v for details. Performance measured only at ambient temperature.
2. Measured at a power level below that at which the limiter begins to self-bias.
3. Measured at 25 kW peak, pulse duration 1.0 µs, 1000 pps.

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