The L0325X is a medium output power coaxial pulsed magnetron that delivers 325 kW minimum of peak output power at a duty cycle of up to 0.001 and a pulse width of up to 3.5 usec.

**KEY FEATURES**

- Tunable over 7.800 GHz to 8.500 GHz range
- Output power, 325 kW peak
- .001 duty cycle
- Forced-air cooling
- Integral permanent magnet
- Waveguide output to WR112/UG-52U
- Equivalent to VMX-1132

.specifications

**PERFORMANCE CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency ( (f_0) )</td>
<td>7.800-8.500 GHz</td>
</tr>
<tr>
<td>Peak Pulse Power Output ( (p_o) )</td>
<td>325 (min) kW</td>
</tr>
<tr>
<td>Average Power Output ( (P_o) )</td>
<td>325 W</td>
</tr>
<tr>
<td>Peak Anode voltage ( (e_{py}) )</td>
<td>27-30 kV</td>
</tr>
<tr>
<td>Peak Anode Current ( (i_{b}) )</td>
<td>30 A</td>
</tr>
<tr>
<td>Average Anode Current ( (I_b) )</td>
<td>30 mADC</td>
</tr>
<tr>
<td>Pulse Width, typical ( (t_{pc}) )</td>
<td>0.2-3.5 usec</td>
</tr>
<tr>
<td>Duty Cycle, typical ( (D_u) )</td>
<td>0.001</td>
</tr>
<tr>
<td>Filament Voltage, ( (E_f) )</td>
<td>9.0 V</td>
</tr>
<tr>
<td>Filament Current, ( (I_f) )</td>
<td>11-14 A</td>
</tr>
<tr>
<td>Warm-up Time ( (t_{k}) )</td>
<td>180 sec</td>
</tr>
<tr>
<td>Max Load Mismatch ( (VSWR) )</td>
<td>1.1:1</td>
</tr>
</tbody>
</table>

**MECHANICAL DESCRIPTION**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Launch Type</td>
<td>Waveguide, mates with WR-112/UG-52U</td>
</tr>
<tr>
<td>Weight (nominal)</td>
<td>20 lbs, (9.07 Kg)</td>
</tr>
<tr>
<td>Outline Dimensions</td>
<td>See outline</td>
</tr>
<tr>
<td>Mounting position</td>
<td>Any</td>
</tr>
<tr>
<td>Tuning</td>
<td>115 turns, nominal</td>
</tr>
<tr>
<td>Cooling</td>
<td>Forced-air</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
L0325X
325 KW X-BAND
COAXIAL PULSED MAGNETRON

SEE OUTLINE
(measurements in inches)

Please contact L3 Electron Devices for additional information, specific product requests, and/or requirements.

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