Coaxial Frequency Mixer

ZAD-1+

Level 7 (LO Power +7 dBm) 0.5 to 500 MHz

Maximum Ratings
Operating Temperature -55°C to 100°C
Storage Temperature -55°C to 100°C
RF Power 50mW
IF Current 40mA

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections
LO 1
RF 3
IF 2

Outline Drawing

Outline Dimensions (inch mm)
A B C D E F G H J K L M N P S wt
2.25 1.38 1.24 .50 .150 3.100 .138 1.238
57.15 35.05 31.50 12.70 3.81 78.74 3.51 31.45
3.25 .10 .40 1.15 1.86 .64 .150 grams
82.55 2.54 10.16 29.21 47.24 16.28 3.81 74.0

Features
• low conversion loss, 5.24 dB typ.
• high L-R isolation, 45 dB typ.
• rugged shielded case

Applications
• VHF/UHF
• instrumentation

Electrical Specifications

FREQUENCY (MHz) CONVERSION LOSS (dB) LO-RF ISOLATION (dB) LO-IF ISOLATION (dB)

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<tr>
<td>LO</td>
<td>RF</td>
<td>LO</td>
<td>0.5-500</td>
<td>5.24</td>
<td>0.10</td>
<td>7.0</td>
<td>8.5</td>
<td>50</td>
<td>45</td>
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<td>DC-500</td>
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1 dB COMP.: +1 dBm typ.
L = low range [f_L to 10 f_L]
M = mid range [10 f_L to f_U/2]
U = upper range [f_U/2 to f_U]

Features
• low conversion loss, 5.24 dB typ.
• high L-R isolation, 45 dB typ.
• rugged shielded case

Applications
• VHF/UHF
• instrumentation

Electrical Schematic

Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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Performance Charts

ZAD-1+

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