Analog Devices Welcomes Hittite Microwave Corporation

NO CONTENT ON THE ATTACHED DOCUMENT HAS CHANGED
MS10 (E) Package Outline Drawing

Package Information

<table>
<thead>
<tr>
<th>Part Number Suffix</th>
<th>Package Body Material</th>
<th>Lead Finish</th>
<th>MSL Rating</th>
<th>Package Marking [3][4]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS10</td>
<td>RoHS Compliant Mold Compound</td>
<td>Sn/Pb Solder</td>
<td>MSL1 [1]</td>
<td>HNNN XXXX</td>
</tr>
<tr>
<td>MS10E</td>
<td>RoHS Compliant Mold Compound</td>
<td>100% matte Sn</td>
<td>MSL1 [2]</td>
<td>HNNN XXXX</td>
</tr>
</tbody>
</table>

NOTES:
1. LEADFRAME MATERIAL: COPPER ALLOY
2. DIMENSIONS ARE IN INCHES [MILLIMETERS]
3. DIMENSION DOES NOT INCLUDE MOLDFLASH OF 0.15mm PER SIDE.
4. DIMENSION DOES NOT INCLUDE MOLDFLASH OF 0.25mm PER SIDE.
5. ALL GROUND LEADS MUST BE SOLDERED TO PCB RF GROUND.

[1] Max peak reflow temperature of 235 °C
[3] 4-Digit lot number XXXX
[4] 3-Digit part number NNN
Suggested MS10 (E) PCB Land Pattern

NOTES:
1. DIMENSIONS ARE IN INCHES [MILLIMETERS].
2. PAD WIDTH SHOWN IS FOR SOLDERING ONLY. BEYOND SOLDERING AREA ALL CONDUCTORS THAT CARRY RF AND MICROWAVE SIGNALS SHOULD HAVE 50 OHM CHARACTERISTIC IMPEDANCE.
**MS10G (E) Package Outline Drawing**

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**NOTES:**
1. LEADFRAME MATERIAL: COPPER ALLOY
2. DIMENSIONS ARE IN INCHES [MILLIMETERS]
   3. DIMENSION DOES NOT INCLUDE MOLDFLASH OF 0.15mm PER SIDE.
   4. DIMENSION DOES NOT INCLUDE MOLDFLASH OF 0.25mm PER SIDE.
5. ALL GROUND LEADS AND GROUND PADDLE MUST BE SOLDERED TO PCB RF GROUND.

[1] Max peak reflow temperature of 235 °C
[3] 4-Digit lot number XXXX
[4] 3-Digit part number NNN
**Package Outlines**

**B - 15**

For price, delivery, and to place orders, please contact Hittite Microwave Corporation:
20 Alpha Road, Chelmsford, MA 01824 Phone: 978-250-3343  Fax: 978-250-3373
Order On-line at www.hittite.com

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**Suggested MS10G (E) PCB Land Pattern**

- **Dimensions are in inches [millimeters].**
- **Pad width shown is for soldering only. Beyond soldering area all conductors that carry RF and microwave signals should have 50 ohm characteristic impedance.**