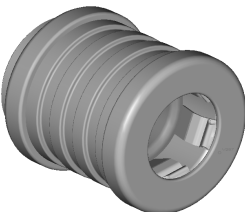


# Product data sheet

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|                                                                                       |                |                                                                                                                                  |                                                                                      |
|---------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Part Number: 4017.QLS.1010.005</b><br><b>Description: QLS-Termination (50 Ohm)</b> |                | <b>Revision: a</b><br><b>Date: 30.09.2005</b><br><b>Signature: U. Mayer</b><br><b>Page: 1 of 2</b>                               |                                                                                      |
| <b>Design according to:</b>                                                           |                | -                                                                                                                                |                                                                                      |
|                                                                                       |                | <b>RoHS (2002/95/EG)</b>                                                                                                         |                                                                                      |
| <b>Electrical characteristics</b>                                                     |                | <div style="background-color: #e0ffe0; padding: 2px; font-size: 0.8em;">colored value means: still under test target value</div> |                                                                                      |
|                                                                                       | Value          | Unit                                                                                                                             | Picture                                                                              |
| Impedance ( MIL-C- 39012B)                                                            | <b>50</b>      | [Ω]                                                                                                                              |  |
| Operating frequency up to                                                             | <b>4</b>       | [GHz]                                                                                                                            |                                                                                      |
| Return loss measured with cable typ:                                                  |                |                                                                                                                                  |                                                                                      |
| 1 GHz                                                                                 | <b>31</b>      | [dB]                                                                                                                             |                                                                                      |
| 2 GHz                                                                                 | <b>25</b>      | [dB]                                                                                                                             |                                                                                      |
| 4 GHz                                                                                 | <b>20</b>      | [dB]                                                                                                                             |                                                                                      |
| 6 GHz                                                                                 |                | [dB]                                                                                                                             |                                                                                      |
| 10 GHz                                                                                |                | [dB]                                                                                                                             |                                                                                      |
| 18 GHz                                                                                |                | [dB]                                                                                                                             |                                                                                      |
| 3rd. Order PIM product 2x43dBm                                                        | /              | [dBc]                                                                                                                            |                                                                                      |
| Insulation resistance                                                                 | <b>5</b>       | [GΩ]                                                                                                                             | at 910MHz / at 1870 MHz                                                              |
| Contact resistance                                                                    |                |                                                                                                                                  |                                                                                      |
| Centre contact                                                                        | <b>3,0</b>     | [mΩ]                                                                                                                             |                                                                                      |
| Outer contact                                                                         | <b>2,0</b>     | [mΩ]                                                                                                                             |                                                                                      |
| Average power to 25°                                                                  | <b>1</b>       | [W]                                                                                                                              |                                                                                      |
| Average power at 50°                                                                  | <b>0,5</b>     | [W]                                                                                                                              |                                                                                      |
| Peak power at 25°                                                                     | <b>100</b>     | [W]                                                                                                                              |                                                                                      |
| Temp. Coefficient +/-                                                                 | <b>100</b>     | PPM/C                                                                                                                            |                                                                                      |
| DC resistance                                                                         | <b>50</b>      | [Ω]                                                                                                                              |                                                                                      |
| <b>Mechanical characteristics</b>                                                     |                | Value                                                                                                                            | Unit                                                                                 |
| Engagement force                                                                      | <b>30</b>      | [N (typ.)]                                                                                                                       | Remarks                                                                              |
| Separating force                                                                      | <b>20</b>      | [N (typ.)]                                                                                                                       |                                                                                      |
| Mating cycles                                                                         | <b>&gt;200</b> |                                                                                                                                  |                                                                                      |

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| <b>Description:</b> QLS-Termination (50 Ohm) | <b>Date:</b> 30.09.2005    |
|                                              | <b>Signature:</b> U. Mayer |
|                                              | <b>Page:</b> 2 of 2        |

| <u>Material &amp; plating</u> | Material        | Plating           |
|-------------------------------|-----------------|-------------------|
| Tighten part                  | stainless steel | -                 |
| Push ferrule                  | stainless steel | -                 |
| Centre contact                | brass           | Ni-P + 0,15µm Au  |
| Housing / cap                 | brass           | Cu + 2-4µm CuZnSn |
| Resistor modul                | ceramic         | -                 |
| Gasket                        | Silikon / MBR   | -                 |

| <u>Environmental influences</u>                                                                                 |                                                                                                  | Remarks |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------|
| Operating temperature range                                                                                     | -25°C up to +70°C<br>Standard                                                                    |         |
| Climatic sequence:<br>1. Dry heat<br>2. Damp heat, cyclic, 1 cycle<br>3. Cold<br>4. Damp heat, cyclic, 6 cycles | IEC 60068-2-61<br>IEC 60068-2-2-Ba<br>IEC 60068-2-30-Db<br>IEC 60068-2-1-Aa<br>IEC 60068-2-30-Db |         |

Notes

| <u>Update historie</u> |            |           |
|------------------------|------------|-----------|
| Rev.                   | date       | Signature |
| a                      | 06.02.2006 | um        |
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