

**IMS Product Specification/ Product Data Sheet**

|                            |   |                        |
|----------------------------|---|------------------------|
| <b>Part Number</b>         | <b>7723.NEX.2110.065</b>  | <b>Teilenummer</b>     |
| <b>Description</b>         | <b>NEX 10 bulkhead jack</b>   | <b>Beschreibung</b>    |
|                            |  |                        |
| <b>Design according to</b> | <b>NEX10</b>  | <b>Ausführung nach</b> |

**Electrical characteristics / Elektrische Eigenschaften**

|                                |                           | colored value means:<br>under validation |                  |                         |                        |
|--------------------------------|---------------------------|--|------------------|-------------------------|------------------------|
|                                |                           | Value/Wert                               | Unit/<br>Einheit |                         |                        |
| Impedance (MIL-C-39012B)       |                           | 50                                       | [Ω]              | Impedanz (MIL-C-39012B) |                        |
| Operating frequency up to      |                           | ...20GHz                                 | [GHz]            | Betriebsfrequenz bis zu |                        |
| Return loss                    | measured with cable type: |  |                  | gemessen mit Kabel Typ: | Rückflussdämpfung      |
|                                | @ DC to 6 GHz             | ≥29                                      | [dB]             |                         |                        |
|                                | @ 6 to 10 GHz             | ≥24                                      | [dB]             |                         |                        |
| Insertion loss                 |                           | ≤0.05 x √f[GHz]                          | [dB]             |                         |                        |
| RF-leakage                     | @ DC to 6 GHz             | ≥110                                     | [dB]             |                         |                        |
| 3rd. Order PIM product 2x43dBm | at 910MHz/at 1870MHz      | ≥160                                     | [dBc]            |                         | PIM Produkt 3. Ordnung |
| Insulation resistance          |                           | ≥5                                       | [GΩ]             |                         | Isolationswiderstand   |
| Contact resistance             |                           |  |                  |                         | Kontakt-Widerstand     |
| Centre contact                 |                           | ≤1.5                                     | [mΩ]             |                         | Innenkontakt           |
| Outer contact                  |                           | ≤1.5                                     | [mΩ]             |                         | Außenkontakt           |
| Power handling                 | at 2GHz and 85°C          | 100                                      | [W] DC           |                         | Belastbarkeit          |
|                                | at 2GHz and 105°C         | 50                                       | [W] DC           |                         | Belastbarkeit          |
| Proof voltage                  |                           | 500                                      | [V] eff          |                         | Prüfspannung           |

**Mechanical characteristics / Mechanische Eigenschaften**

|                    |              | Value/ Wert | Unit/<br>Einheit |  |                                       |
|--------------------|--------------|-------------|------------------|--|---------------------------------------|
| Mating cycles      |              | ≥100        |                  |  | Steckzyklen                           |
| Recommended torque |              | 1.5         | [Nm]             |  | Empfohlenes Anzugsmoment              |
| Water resistance   | (mated pair) | IP68 24h/1m |                  |  | Wasserbeständigkeit (gestecktes Paar) |

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### Material & plating / Material & Oberfläche

| RoHS (2011/65/EU) conform |                   |                     |              |
|---------------------------|-------------------|---------------------|--------------|
|                           | Material/Material | Plating/Oberflächen |              |
| Outer contact             | Brass             | Cu + 2-4µm CuZnSn   | Außenkontakt |
| Centre contact            | Copper beryllium  | Cu + 3-6µm Ag       | Innenkontakt |
| Crimp ferrule             | -                 |                     | Crimphülse   |
| Insulator                 | PTFE              |                     | Isolator     |
| Gasket                    | Silicone/Silikon  |                     | Dichtung     |

### Environmental influences / Umwelteinflüsse

|                             |                                      |                           |
|-----------------------------|--------------------------------------|---------------------------|
| Operating temperature range | -55°C up to +125°C                   | Betriebstemperaturbereich |
| Thermal shock               | IEC 61169-1 9.4.4.                   | Wärme Schock              |
| Vibration                   | IEC 61169-1 9.3.3 and IEC 60068-2-64 | Vibration                 |
| Shock                       | IEC 61169-1 9.3.14                   | Schock                    |
| RoHS                        | compliant                            |                           |
| Solder profile              |                                      | Lötprofil                 |

### Notes / Aufzeichnungen

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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