IMS CONNECTOR SYSTEMS GmbH
Obere Hauptstrasse 30
D-79843 Löffingen
Postfach 1141

Template Revision: 12

# IMS Product Specification/ Product Data Sheet

| | | |
|---|---|---|
| **Part Number** | **7783.NEX.1410.08Z** | **Teilenummer** |
| **Description** | **NEX10 Cable mount plug** | **Beschreibung** |
| |  | |
| **Design according to** | **RT-NEX10** | **Ausführung nach** |

## Electrical characteristics / Elektrische Eigenschaften

colored value means: under validation

| | | Value/Wert | Unit/ Einheit | |
|---|---|---|---|---|
| Impedance (MIL-C-39012B) | | 50 | [Ω] | Impedanz (MIL-C-39012B) |
| Operating frequency up to | | 20 | [GHz] | Betriebsfrequenz bis zu |
| | | | | |
| Return loss | | | | gemessen mit Kabel Typ: Rückflussdämpfung |
| | DC to 1 GHz | ≥30 | [dB] | |
| | 1 G to 2 GHz | ≥28 | [dB] | |
| | 2 G to 3 GHz | ≥26 | [dB] | |
| | 3 G to 4 GHz | ≥20 | [dB] | |
| | 4 G to 6 GHz | ≥18 | [dB] | |
| Insertion loss | | ≤0.05 x √f[GHz] | [dB] | |
| RF-leakage | @DC to 6 GHz | ≥5 | | |
| 3rd. Order PIM product 2x43dBm | at 1870MHz | ≥160 | [dBc] | PIM Produkt 3. Ordnung |
| Insulation resistance | | ≥5 | [GΩ] | Isolationswiderstand |
| Contact resistance | | | | Kontakt-Widerstand |
| Centre contact | | ≤2 | [mΩ] | Innenkontakt |
| Outer contact | | ≤1 | [mΩ] | Außenkontakt |
| Working voltage | max. | 500 | [V] eff | Spannung |
| Proof voltage | min. | 1500 | [V] eff | Prüfspannung |
| Powe handing | at 2GHz and 85°C | 100 | [W] DC | Belastbarkeit |
| | at 2GHz and 105°C | 50 | [W] DC | |
| | | | | |
| | | | | |

## Mechanical characteristics / Mechanische Eigenschaften

| | | Value/ Wert | Unit/ Einheit | |
|---|---|---|---|---|
| Mating cycles | | ≥100 | | Steckzyklen |
| Retention force of coupling mecha. | | >500 | [N] | Haltekraft für Kupplungsmechanismus |
| Recommended torque | | 1.5 | [Nm] | Empfohlenes Anzugsmoment |
| Water resistance | (mated pair) | IP68 24h/1m | | Wasserbestädigkeit (gestecktes Paar) |
| | | | | |
| | | | | |

Date/Generated: 02.08.2024 Mingmin.duan Revision A01
Date/Approved:

IMS CONNECTOR SYSTEMS GmbH
Obere Hauptstrasse 30
D-79843 Löffingen
Postfach 1141

Template Revision: 12

# IMS Product Specification/ Product Data Sheet

| Part Number | 7783.NEX.1410.08Z | Teilenummer |
|---|---|---|
| Description | NEX10 Cable mount plug | Beschreibung |

## Material & plating / Material & Oberfläche

| | RoHS (2011/65/EU) conform | | |
|---|---|---|---|
| | Material/Material | Plating/Oberflächen | |
| Outer contact | Copper berylium | Cu + 3-6µm Ag | Außenkontakt |
| Centre contact | Brass | Cu + 3-6µm Ag | Innenkontakt |
| Housing | Brass | Cu + 2-4µm CuSnZn | Gehäuse |
| Nut | Brass | Cu + 2-4µm CuSnZn | Mutter |
| Spring ring | Stainless steel | - | Federring |
| 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 Scxhock |
| 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** |