

| TEST/CHARACTERISTICS | STANDARD REFERENCE | VALUES/REMARKS | | |
|----------------------|--------------------|----------------|--|--|
|----------------------|--------------------|----------------|--|--|

ELECTRICAL CHARACTERISTICS

| | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------|-----------------------------|---------------|
| Impedance | | 50 Ω | | |
| Frequency range | | DC-4 GHz | | |
| Typical V.S.W.R. <i>Straight models cable group : 2/50, 2.6/50, 5/50, 10 + 11/50, .141"</i> <i>Right angle models 2/50, 2.6/50, 5/50,</i> | | 1 GHz 1.12 | 2.5 GHz 1.18 1.30 max | 4 GHz 1.22 |
| Insertion loss <i>straight connector</i> <i>right-angle connector</i> | | 0.05 0.08 | 0.07 0.16 | 0.13 0.20 |
| RF Leakage | | - 55 dB min from 2 to 3 GHz | | |
| Insulation resistance | | 5000 MΩ min | 5000 MΩ min | 5000 MΩ min |
| Contact resistance <i>center contact</i> <i>outer contact</i> | MIL | 1.5 mΩ 0.2 mΩ | | |
| Working voltage in VRMS <i>at sea level</i> <i>(at 21 000m)</i> | | 500 125 | | |
| Dielectric withstanding voltage in VRMS <i>at sea level</i> <i>(at 21 000m)</i> | | 1500 375 | | |
| RF testing voltage in VRMS <i>sea level (5 MHz)</i> | | 1000 | | |

MECHANICAL CHARACTERISTICS

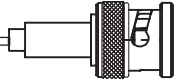
| | | | | |
|-----------------------------------------------------------------------------------------------------------|-----|------------------------|--|--|
| Durability | | 500 matings | | |
| Force to engage and disengage <i>axial torque</i> | | 13.6 N max 28.6 Ncm | | |
| Coupling nut retention force | MIL | 445 N | | |
| Cable retention force <i>cable 2/50, 2.6/50</i> <i>cable 5/50, 10 + 11/50</i> <i>cable .141"</i> | | 227 N | | |
| Center contact retention force | | 27.2 N | | |

ENVIRONMENTAL CHARACTERISTICS

| | | | | |
|-------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Temperature range <i>flexible cables</i> <i>semi-rigid cables</i> | MIL | - 65°C + 165°C - 65°C + 105°C | | |
| Thermo cycling test | | MIL STD 202, method 107, condition B | | |
| Thermal shock | | MIL STD 202, method 107, condition B | | |
| Hight temperature endurance | | MIL STD 202, method 108 | | |
| Corrosion salt spray | | MIL STD 202, method 101, condition B | | |
| Vibration | | MIL STD 202, method 204, condition B | | |
| Shock | | MIL STD 202, method 213, condition G | | |
| Moisture resistance | | MIL STD 202, method 106 | | |
| Hermetic test | | MIL STD 202, method 112, condition C vacuum 10 ⁻⁶ Hgmm (Torr) leakage rate < 10 ⁻⁶ atm/cm ³ /s | | |
| Barometric pressure | | Pressure test : 3.5 bars; duration : 2 mn; temperature : 15° C to 25 °C | | |

BNC 50 Ω

CHARACTERISTICS



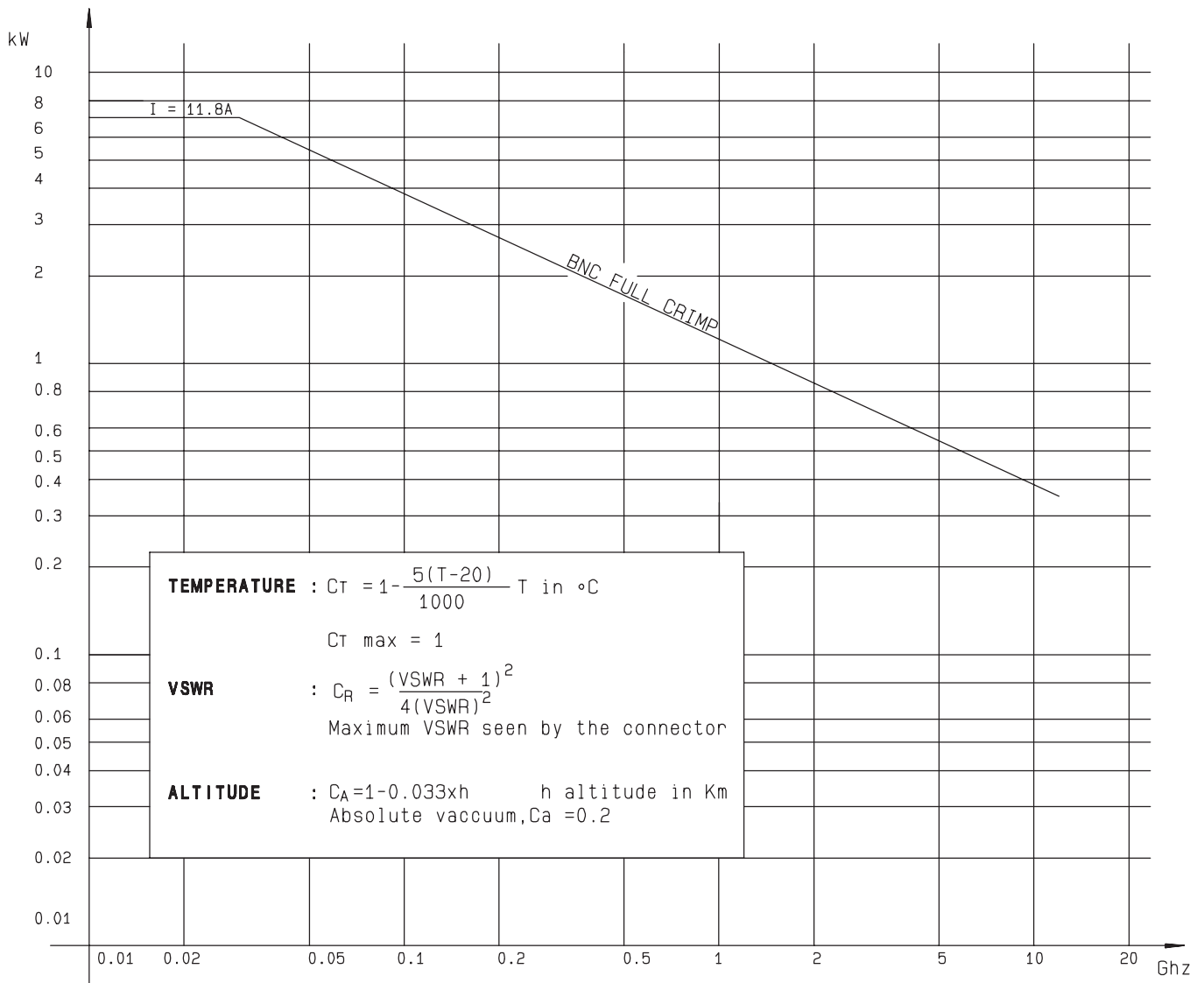
MATERIALS

| | | |
|----------------|------------------------------|--------------------------------------------------------------|
| Bodies | | Brass |
| Center contact | <i>male</i> <i>female</i> | Brass Bronze or heat treated beryllium following QQ-C-530 |
| Nut | | Brass |
| Insulator | | PTFE |
| Gasket | | Silicon rubber |

PLATINGS

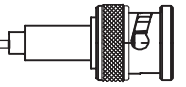
| | | |
|-----------------|--|--------|
| Bodies | | Nickel |
| Center contacts | | Gold |

POWER RATING



Standard packaging : unit

All dimensions are given in mm.



STRAIGHT BULKHEAD RECEPTACLES WITH SOLDER POT

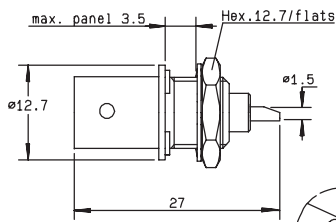


Fig. 1

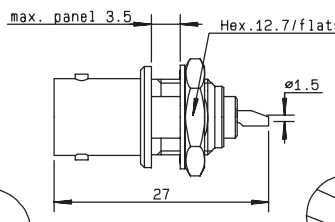


Fig. 2

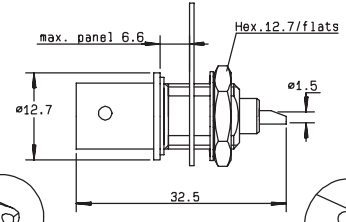


Fig. 3

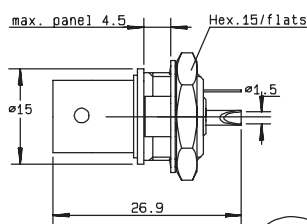


Fig. 4

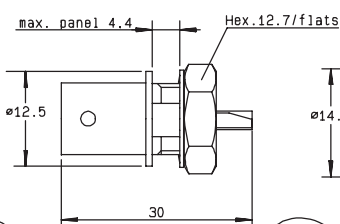


Fig. 5

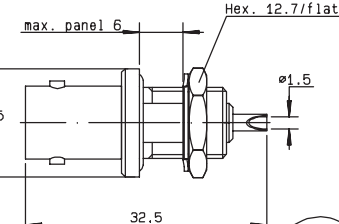


Fig. 6

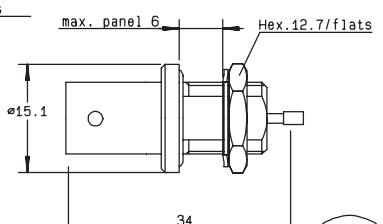
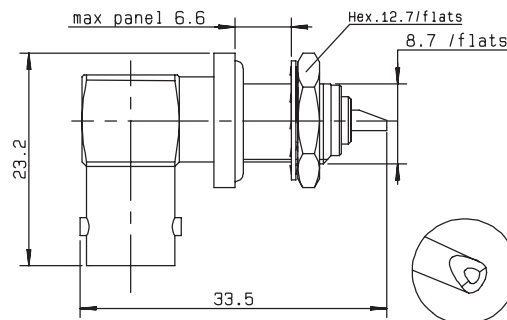


Fig. 7

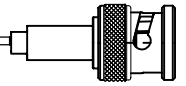
| part number | fig. | captive center contact | cut out | note |
|---------------|------|------------------------|---------|-----------------------------------|
| R141 554 000 | 1 | yes | P20 | |
| R141 557 000* | 2 | yes | P07 | |
| R141 559 000 | 3 | yes | P07 | solder tag |
| R141 572 000* | 4 | yes | P05 | insulated receptacle + solder tag |
| R141 574 000 | 5 | yes | P07 | insulated receptacle + solder tag |
| R141 603 000 | 6 | yes | P22 | fully sealed/Q200-5 insulator |
| R141 605 000 | 6 | yes | P22 | fully sealed |
| R141 625 000 | 7 | yes | P07 | hermetically sealed |

RIGHT ANGLE BULKHEAD RECEPTACLE WITH SOLDER POT

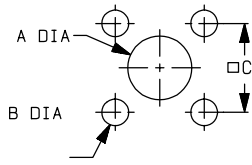


| part number | captive center contact | cut out |
|--------------|------------------------|---------|
| R141 680 000 | yes | P07 |

* Packaging = 100 pieces.

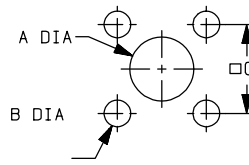


P17



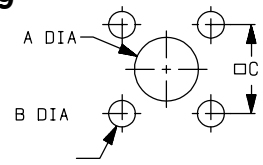
| MM | | |
|----|-------|-------|
| | maxi | mini |
| A | 7.9 | 7.8 |
| B | 2.7 | 2.6 |
| C | 12.75 | 12.65 |

P18



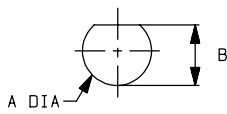
| MM | | |
|----|-------|-------|
| | maxi | mini |
| A | 8.3 | 8.2 |
| B | 3.4 | 3.3 |
| C | 13.55 | 13.45 |

P19



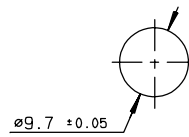
| MM | | |
|----|-------|-------|
| | maxi | mini |
| A | 8.3 | 8.2 |
| B | 2.7 | 2.6 |
| C | 12.75 | 12.65 |

P20

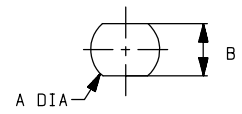


| MM | | |
|----|-------|-------|
| | maxi | mini |
| A | 11.25 | 11.15 |
| B | 10.43 | 10.35 |

P21

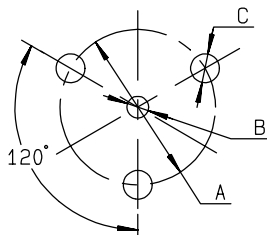


P22



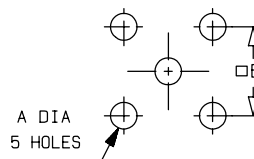
| MM | | |
|----|------|------|
| | maxi | mini |
| A | 9.75 | 9.65 |
| B | 8.65 | 8.55 |

P23



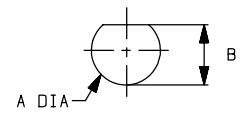
| MM | | |
|----|------|------|
| | maxi | mini |
| A | 8.65 | 8.55 |
| B | 1.3 | 1.1 |
| C | 1.7 | 1.5 |

P24



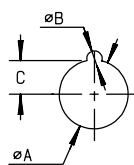
| MM | | |
|----|-------|-------|
| | maxi | mini |
| A | 1.4 | 1.2 |
| B | 10.21 | 10.11 |

P25



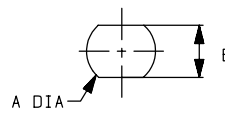
| MM | | |
|----|-------|-------|
| | maxi | mini |
| A | 12.9 | 12.8 |
| B | 12.15 | 12.05 |

P26



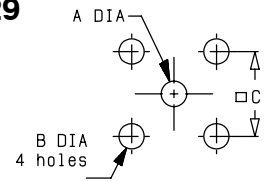
| MM | | |
|----|-------|-------|
| | maxi | mini |
| A | 16.35 | 16.25 |
| B | 2.43 | 2.38 |
| C | 7.97 | 7.87 |

P27



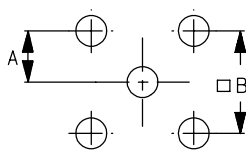
| MM | | |
|----|------|------|
| | maxi | mini |
| A | 15.9 | 15.8 |
| B | 13.6 | 13.5 |

P29



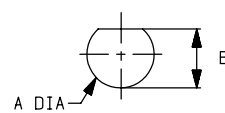
| MM | | |
|----|------|------|
| | maxi | mini |
| A | 1.4 | 1.3 |
| B | 2.1 | 2.2 |
| C | 6.65 | 6.55 |

P30



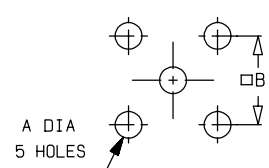
| MM | | |
|----|-------|-------|
| | maxi | mini |
| A | 3.835 | 3.785 |
| B | 7.67 | 7.57 |

P31



| MM | | |
|----|-------|------|
| | maxi | mini |
| A | 12.9 | 12.8 |
| B | 12.15 | 12 |

P32



| MM | | |
|----|-------|-------|
| | maxi | mini |
| A | 5.105 | 5.055 |
| B | 10.21 | 10.11 |