

# PR-RCP1-NM-C07

N male connector for 1 5/8" coaxial cable

**PROSE**

- 50  $\Omega$  impedance
- N male interface
- Field installation
- Frequency 11 GHz
- Working frequency up to 2.7GHz
- Good return loss and intermodulation performance

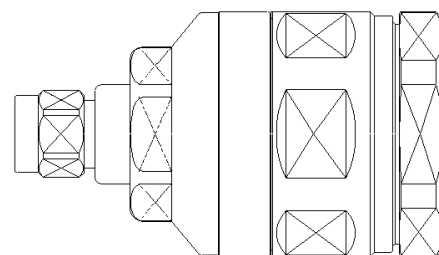


Photo for reference

## Part number

|                |                                           |
|----------------|-------------------------------------------|
| PR-RCP1-NM-C07 | N male connector for 1 5/8" coaxial cable |
|                | According to IEC61169-16                  |

## Part list

| NO. | Description            | Material        | Plating   |
|-----|------------------------|-----------------|-----------|
| 1   | Inner conductor        | Brass           | Ag        |
| 2   | Outer conductor & Body | Brass           | Tri-alloy |
| 3   | Nut                    | Brass           | Ni        |
| 4   | Insulator              | TPX             |           |
| 5   | O-ring                 | Silicone rubber |           |

## Document

|          |                                        |
|----------|----------------------------------------|
| Document | MA_RCP1-1 5/8 installation instruction |
|----------|----------------------------------------|

## Electrical data

|                                 |                            |
|---------------------------------|----------------------------|
| Characteristics impedance       | 50 $\Omega$                |
| Insulation resistance           | $\geq 5G\Omega$            |
| Center contact resistance       | 1m $\Omega$                |
| Outer contact resistance        | 0.25m $\Omega$             |
| Dielectric withstanding voltage | 2500V rms                  |
| Operating voltage               | 1400V rms                  |
| Insertion loss                  | 0.05* $\sqrt{F}$ GHz dB    |
| Return loss                     | $\leq -30$ dB @ DC-1.0GHz  |
|                                 | $\leq -28$ dB @ 1.0-2.2GHz |
|                                 | $\leq -26$ dB @ 2.2-2.7GHz |

|                                                   |                                 |
|---------------------------------------------------|---------------------------------|
| DTF                                               | $\leq -35\text{dB @DC-1.0GHz}$  |
|                                                   | $\leq -30\text{dB @1.0-2.7GHz}$ |
| Intermodulation (3 <sup>rd</sup> Order) , 2x43dBm | $\leq -160\text{dBc}$           |

## Mechanical data

|                                  |                      |
|----------------------------------|----------------------|
| Interface                        | N male               |
| Suitable cable                   | 1 5/8" coaxial cable |
| Mating cycles                    | $\geq 500$ times     |
| Coupling nut retention           | $\geq 450\text{N}$   |
| Connector torque proof recommend | 0.7 to 1.3N.m        |

## Environment

|                     |                     |
|---------------------|---------------------|
| Working temperature | -45°C to +85°C      |
| Weather standard    | IEC 60068 40/085/21 |
| Thermal shock       | IEC 60068-2-14-Na   |
| Vibration           | IEC 60068-2-6-Fc    |
| Shock               | IEC 60068-2-27      |
| IP protection       | IP68, mated pair    |
| RoHS                | Compliant           |

### Notice

- 1, The connection should be covered with addition weatherproof kits for long time duration.
- 2, Connection molding shape may be changed during the product life-time due to the manufacture skill upgrade.

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