# **Data Sheet**



# **RF TERMINATION Type 6510.31.0002**

## **Description**

Low PIM Termination, Medium Power

PIM optimised



## **Product Configuration**

Connector 4.3-10 jack (female) Interface standards IEC 61169-54

#### **Technical Data**

**Electrical Data** 

Nominal Impedance 50  $\Omega$ 

Frequency range 0.4 to 3.8 GHz

Frequency sub range DC to 0.4 GHz 0.4 to 0.6 GHz 0.6 to 0.8 GHz 0.8 to 3.8 GHz

VSWR max. 1.4 1.25 1.17

Power rating 10 Watt average power up to 30 °C ambient temperature, linearly derated to 5 Watt at 55 °C ambient

temperature.

3rd order intermodulation max. Static -160 dBc at 2x 43 dBm / 2x 20 W carrier

**Mechanical Data** 

Weight 0.42 kg

**Environmental Data** 

Operating temperature -40 °C to 55 °C 2011/65/EU (RoHS - including compliant 2015/863 and 2017/2102)

#### **Material Data**

Piece Part	Material	Surface Plating
Centre contact	Copper Beryllium / Brass	Silver Plating
Outer contact	Bronze / Brass	Silver Plating
Body	Aluminium	Passivated (Plating)
Insulator	PFA / PTFE	

#### **Related Documents**

Outline drawing DOU-00326338

## **Ordering Information**

Single Packaging 6510.31.0002 Packaging

#### **Additional Information**

#### Remarks

4.3-10 Interface protection against dangerous mismatch with 4.1/9.5

RF power handling 10 W continuous or 40 W for max 3 min periodic at an ON:OFF ratio of 1:3 Line configuration: RF/DC short-circuited

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## RF TERMINATION Type 6510.31.0002

Passive intermodulation, 2 x 20 W / 43 dBm to 3rd order products:

<= -155 dBc, typ. < -165 dBc at 400 MHz,

<= -160 dBc, typ. < -165 dBc at 900 / 1800 / 1900 MHz

Surface temperature max.at 30 °C ambient temperature and ongoing regular operation:

- protective cover 60 °C,
- body 80 °C

/!\ WARNING /!\ HOT SURFACE - DO NOT TOUCH

Device may reach +80 °C at higher ambient temperature.

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