Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

Telegartner Surge Protector, 4.3-10 Male to 4.3-10 Female, 3.8 GHz

SKU
ACC-TG-00008
MPN
100025378

Description

Telegärtner's 4.3-10 Male to 4.3-10 Female Coaxial Surge Protector has been engineered to provide superior protection for high-frequency applications, extending up to 3.8 GHz. This makes it particularly suitable for the latest 5G networks and other advanced communication systems. Utilising a Gas Discharge Tube (GDT), this surge protector ensures the safeguarding of sensitive electronic equipment from high voltage surges.

- Interface: 4.3-10 Male to 4.3-10 Female
- Frequency Range: Operates up to 3.8 GHz, making it ideal for 5G and other high-frequency applications
- Surge Protection: Employs a Gas Discharge Tube (GDT) capable of handling high discharge currents up to 40 kA (8/20 impulse)
- Design: Robust and reliable design, ensuring minimal signal loss and maintaining excellent return loss values at high frequencies
- Replaceable GDT: The gas discharge tube is replaceable, allowing for easy maintenance and extended product life

The Telegärtner Surge Protector (SKU: ACC-TG-00008) is a high-performance RF surge protector designed for 4.3-10 Male to 4.3-10 Female connections, supporting frequencies up to 3.8 GHz. This makes it ideal for 5G networks and advanced communication systems. It utilises a Gas Discharge Tube (GDT) to protect sensitive electronic equipment from high voltage surges, with a discharge capacity of up to 40 kA (8/20 impulse).

Engineered with a robust design, this surge protector ensures minimal signal loss and excellent return loss values at high frequencies. The replaceable GDT allows for easy maintenance and extended lifespan. Constructed from quality materials including lead-brass alloy (CuZn39Pb3) and beryllium copper, it offers reliable performance in challenging environments with an IP67 rating, functioning effectively between -40 °C and 85 °C.

The surge protector maintains a VSWR of ≤ 1.25:1 at 2700 MHz with a return loss of ≤ 30.00 dB and...

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Telegärtner

As family-owned company the Telegärtner Group has developed to an international network of affiliated companies specialising in intermediate and end products for telecommunications and data communications for customers with the most exacting demands for high-tech applications over the last 70 years.

Since the company was set up in 1945 Telegärtner has seen steady growth and has continually expanded ...

RF Connector Interface

RF Interface	Body Shape	Mounting
4.3-10 Male	Straight	Free Hanging
4.3-10 Female	Straight	Free Hanging

RF Specification

Start Frequency
0 GHz
Stop Frequency
3.8 GHz
Spark-over Voltage
75 V
Input Impedance
50 Ω
Impulse Discharge
10 x 15 kA (8/20µs)
Inner Contact Resistance
≤ 2 mΩ
Outer Contact Resistance
≤ 1 mΩ
VSWR Measurement

Frequency	Return Loss	Insertion Loss
2700 MHz	≤ 30 dB	0.1 dB
3800 MHz	≤ 20 dB	0.25 dB

Physical Specification

Body Material
Lead-Brass Alloy (CuZn39Pb3)
Body Plating
CuSnZn3
Insulator Material
PTFE / Teflon
Dimensions
74 x 25 x 28.6
Compliance/Certifications
ISO 9001 Quality Management
,
RoHS

Contact Material

Beryllium Copper, Lead-Brass Alloy (CuZn39Pb3)

Contact Plating

Copper-Silver Alloy (Cu2Ag5 / Cu2Ag3)

Min. Operating Temperature

-40 °C

Max. Operating Temperature

85 °C

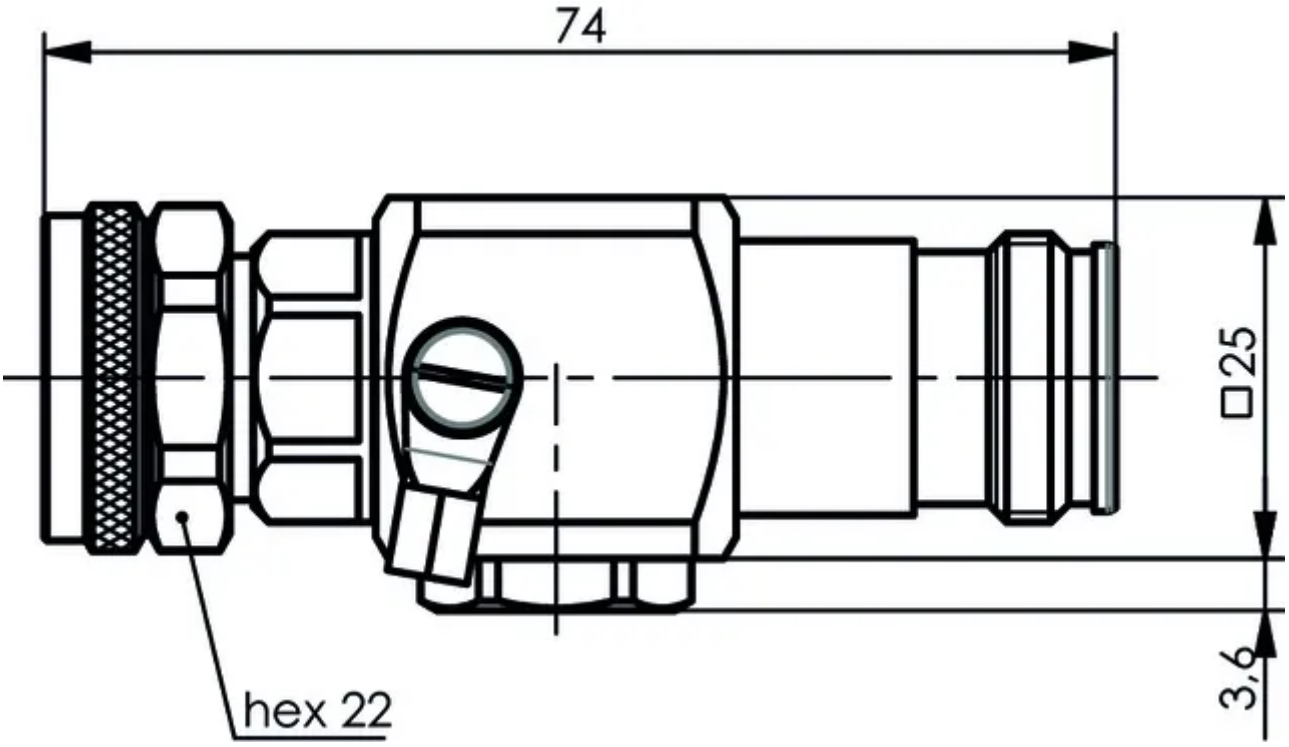
Mating Cycles

> 100

Ingress Protection

IP67

Drawing



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