

Telegärtner Surge Protector, 4.3-10 Female to 4.3-10 Female, 3.8 GHz, Bulkhead

SKU: ACC-TG-00007

MPN: 100025373

Description

The Telegärtner Surge Protector (SKU: ACC-TG-00007) provides robust protection for high-frequency applications up to 3.8 GHz, making it ideal for 5G networks and other high-performance systems. Designed with 4.3-10 Female to 4.3-10 Female connectors, this bulkhead surge protector utilises a Gas Discharge Tube (GDT) capable of handling discharge currents up to 40 kA (8/20 impulse), ensuring effective defence against high voltage surges. The GDT is replaceable for easy maintenance, enhancing the product's long-term reliability.

The protector's design ensures minimal signal degradation, maintaining excellent return loss values at high frequencies. Its construction features high-quality materials such as a Lead-Brass Alloy (CuZn39Pb3) and Copper-Silver Alloy (Cu2Ag5/Cu2Ag3), guaranteeing durability. The component operates effectively between -40 °C and 85 °C and is rated IP67 for superior environmental protection.

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RF Connector Interface

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

RF Specification

Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	3.8 GHz	Impulse Discharge:	10 x 15 kA (8/20 s)
Spark-over Voltage:	75 V	Inner Contact Resistance:	$\leq 2 \text{ m}\Omega$
		Outer Contact Resistance:	$\leq 1 \text{ m}\Omega$

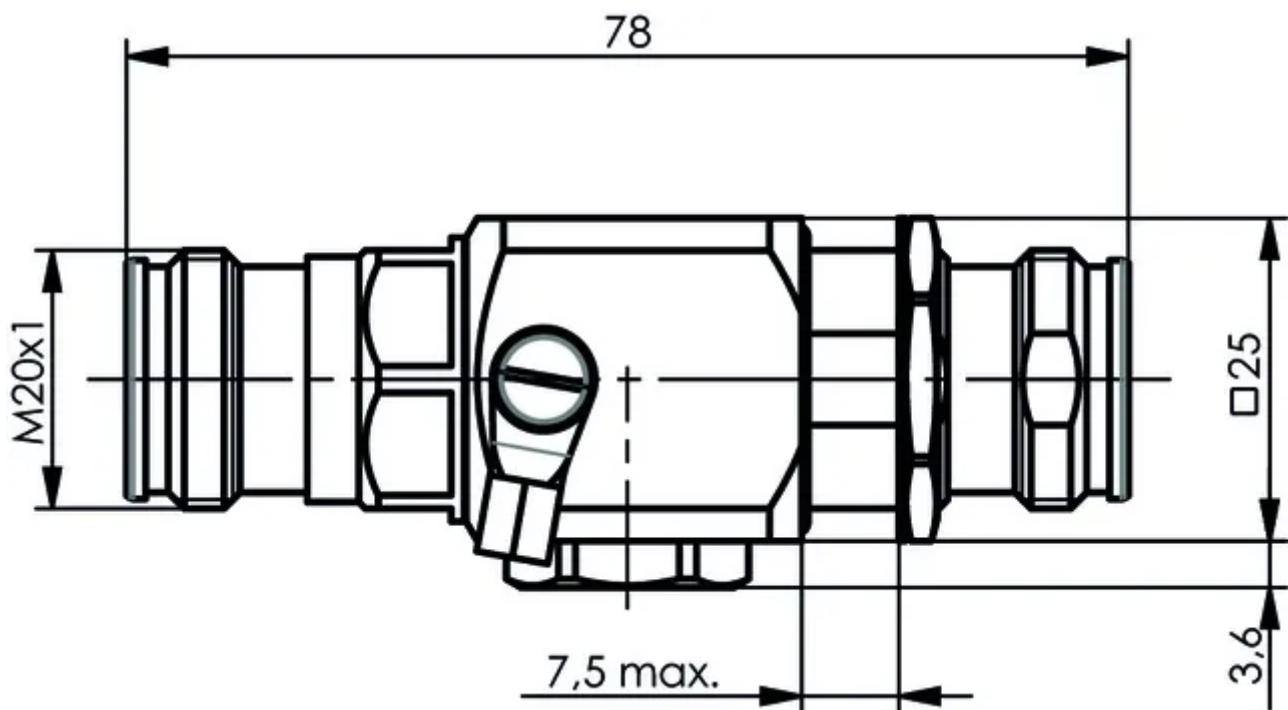
VSWR Measurement

Frequency	Return Loss	Insertion Loss
2700 MHz	$\leq 30 \text{ dB}$	0.1 dB
3800 MHz	$\leq 20 \text{ dB}$	0.25 dB

Physical Specification

Body Material:	Lead-Brass Alloy (CuZn39Pb3)	Contact Material:	Beryllium Copper, Lead-Brass Alloy (CuZn39Pb3)
Body Plating:	CuSnZn3	Contact Plating:	Copper-Silver Alloy (Cu2Ag5 / Cu2Ag3)
Insulator Material:	PTFE / Teflon		
Dimensions:	78 x 25.3 x 28.6	Min. Operating Temperature:	-40 °C
Compliance/Certifications:	ISO 9001 Quality Management	Max. Operating Temperature:	85 °C
RoHS		Mating Cycles:	> 100
		Ingress Protection:	IP67

Drawing



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