

COAXIAL SURGE PROTECTOR DEVICE, High-power/low-IM GDT
hybrid technology
3409.41.0090

Properties

- DC continuity for remote powering
- RF peak power not limited by gas discharge tube
- Excellent low PIM performance; Ideal for multicarrier systems
- Availability for application bands between 380 MHz and 18 GHz
- Gas discharge tube installed



Product configuration	
Main path connectors	Port 1: unprotected, 7/16 plug (male) Port 2: protected, 7/16 jack (female)
Mounting and grounding	MH110 (bulkhead mounting), M8 (screw), brk (bracket)
Side of bulkhead	protected side
EMP can be install reversed	YES
Interface and material data	
Housing material / plating	Brass / SUCOPLATE (R) Plating
Center contact, material / plating	Port 1: Brass / Silver Plating Port 2: Bronze / Silver Plating
Electrical data	
Impedance	50 Ω
Frequency frame	690 MHz to 2690 MHz
Return loss typical	≥ 28 dB
Insertion loss typical	≤ 0.1 dB
CW power frame	≤ 1500 W
PIM 3rd order	-160 dBc
AISG frequency	10 MHz
AISG return loss	18 dB
AISG insertion loss	0.1 dB
Residual pulse energy (typ.)	250 μJ (test pulse 4 kV 1.2/50 μs; 2 kA 8/20 μs)
Surge current handling capability	30 kA single, 20 kA multiple (test pulse 8/20 μs)

COAXIAL SURGE PROTECTOR DEVICE, High-power/low-IM GDT hybrid technology
3409.41.0090

Electrical remarks			
DC supply voltage		48 V	
DC current		13 A	
Gas tube		Yes DC, GDT included, replaceable, 9071.99.0548 (90 V)	
Mechanical data			
Weight		525 g	
Mating cycles		500	
Environmental data			
Operation temperature		-40 °C ... 85 °C	
Storage temperature		-40 °C ... 85 °C	
Ingress protection (IP Rating)		Mated / IP67, according to IEC 60529	
Thermal shock according		MIL-STD-202, Method 107, Cond. B	
Vibration according		MIL-STD-202, Method 204, Cond. A	
Moisture resistance according		MIL-STD-202, Method 106	
Compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
84142698	RoHS 2011/65/EU and (EU) 2015/863	Compliant with exemption	6c
	REACH 1907/2006 Article 33 SVHC	Contains one or more SVHC >0,1%	CAS: 7439-92-1 Lead
Ordering Information Table			
Item number		Item description	
84142698		3409.41.0090	

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/ EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P1940 / Date of publication: 28.02.2025 / uncontrolled copy