

COAXIAL SURGE PROTECTOR DEVICE, Quarter-wave stub technology

3400.41.0204

Properties

- Maintenance-free products
- Highest current handling capability up to 100 kA max.
- Best PIM performance
- Available in several frequency ranges from 380MHz up until 18GHz
- Inertion loss not exceeding 0.2 dB max.



Product configuration

Main path connectors	Port 1: unprotected, 7/16 plug (male) Port 2: protected, 7/16 jack (female)
Mounting and grounding	M8 (screw), brk (bracket)
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: Copper Beryllium Alloy / Silver Plating

Electrical data

Impedance	50 Ω
Frequency frame	806 MHz to 2500 MHz
Return loss typical	≥ 20.8 dB
Insertion loss typical	≤ 0.15 dB
CW power frame	≤ 1500 W
PIM 3rd order	-150 dBc max.
Residual pulse energy (typ.)	10 μ J (test pulse 4 kV 1.2/50 μ s; 2 kA 8/20 μ s)
Surge current handling capability	100 kA single, 80 kA multiple (test pulse 8/20 μ s)

Electrical bands

	Range 1	Range 2
Frequency range	806 MHz ... 960 MHz	1710 MHz ... 2500 MHz
Return loss typical	≥ 26 dB	≥ 26 dB
Insertion loss	≤ 0.15 dB	≤ 0.15 dB
Power avg. / peak	≤ 3000 W / -	≤ 1500 W / -

COAXIAL SURGE PROTECTOR DEVICE, Quarter-wave stub technology
3400.41.0204

Electrical bands			
	Range 1		Range 2
PIM 3rd order	-150 dBc typ.		-150 dBc typ.
Electrical remarks			
Gas tube		No DC / shorted QW or LC	
Mechanical data			
Weight		415 g	
Mating cycles		500	
Environmental data			
Operation temperature		-40 °C ... 85 °C	
Storage temperature		-40 °C ... 85 °C	
Ingress protection (IP Rating)		IP65	
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
23030180	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: 3147-75-9 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)
			CAS: 7439-92-1 Lead
Ordering Information Table			
Item number		Item description	
23030180		3400.41.0204	

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-P2051 / Date of publication: 28.02.2025 / uncontrolled copy