



G: Gas tube
 D: Clamping diode network
 V: Varistor
 LED: Status indicator
 L: Inductor

Electrical Characteristics

SPD type		2+3
Network		12 Vac/Vdc
Nominal line voltage	Un	12 Vac/Vdc
Max. DC operating voltage	Uc	15 Vac/Vdc
Insertion loss		< 0.1 dB
Max. load current @25°C	IL	5 A
Nominal discharge current 15 x 8/20 μs impulses	In	5 kA
Max. discharge current max. withstand @ 8/20 μs by pole	Imax	10 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs	Uoc	10 kV / 5 kA
Protection mode(s)		Common/Differential mode
Protection level @ In (8/20μs)	Up	0.22 kV
Protection level Following the test category C3 (IEC61643-21) - Line/Line	Up	20 V
Protection level L/N @ In (8/20μs)	Up L/N	0.22 kV
Protection level L/PE @ In (8/20μs)	Up L/PE	0.22 kV
Nominal discharge current C2 Category	In	2.5 kA

ELEC

Network		Signal video
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ELEC

Max. DC operating voltage	Uc	6 Vdc
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ELEC

Max. frequency	f max.	100 Mhz
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Insertion loss		< 1dB
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ELEC

Max. load current@25°C	IL	300 mA
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Nominal discharge current 15 x 8/20 μs impulses	In	5 kA
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Max. discharge current max. withstand @ 8/20 μs by pole	Imax	10 kA
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Protection level @ In (8/20μs)	Up	20 V
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Network		1 pair signal 0-5 V
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Max. DC operating voltage	Uc	8 Vdc
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Max. frequency	f max.	16 Mhz
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Insertion loss		< 1dB
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Max. load current@25°C	IL	300 mA
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Nominal discharge current 15 x 8/20 μs impulses	In	2.5 kA
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Max. discharge current max. withstand @ 8/20 μs by pole	Imax	5 kA
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ELEC

Protection level @ In (8/20μs)	Up	20 V
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Mechanical Characteristics

Technology		MOV+GDT
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Connection to Network		By screw terminals: 2.5-25mm²
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MSP-VM12

Format		DIN rail or flange
Mounting		DIN rail or plate (flange)
Housing material		Anodized aluminum
Operating temperature	Tu	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection and Power cut off
Disconnection indicator		Green LED OFF and line cut off
Voltage/operating indicator		Green led(s) on
Dimensions		See diagram
Disconnectors		
Thermal disconnecter		Internal
Standards		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
Part number		
420403		