



Surge arrester

3-electrode arrester

Series/Type: T90-A230X
Ordering code: B88069X6700C253
Version/Date: Issue 07 / 2013-03-07

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Features

- Very small size
- Fast response time
- High current rating
- Stable performance over life
- Extremely low capacitance
- High insulation resistance
- RoHS-compatible

Applications

- Line protection
- Station protection
- Base stations

Electrical specifications

DC spark-over voltage ^{1) 2) 3)}		184 ... 276	V
DC spark-over voltage ^{2) 4)}		176 ... 550	V
Impulse spark-over voltage			
at 100 V/ μ s	- for 99% of measured values ³⁾	< 600	V
	- for 50% of measured values ³⁾	< 550	V
at 1 kV/ μ s	- for 99% of measured values ³⁾	< 700	V
	- for 50% of measured values ³⁾	< 650	V
Service life			
10 operations	50 Hz; 1 s ⁶⁾	5	A
10 operations	50 Hz; 1 s ⁵⁾	10	A
10 operations [5x (+) & 5x (-)]	8/20 μ s ⁵⁾	10	kA
10 operations [5x (+) & 5x (-)]	8/20 μ s ⁶⁾	5	kA
5 operations	10/250 μ s ⁵⁾	2.5	kA
2 operations	10/350 μ s ⁵⁾	2.5	kA
300 operations	10/1000 μ s ⁵⁾	200	A
DC holdover voltage ⁸⁾			
at 52 V _{DC} / 260 Ω		< 150	ms
at 80 V _{DC} / 330 Ω		< 150	ms
at 135 V _{DC} / 1300 Ω		< 150	ms
Activation after reflow soldering ⁷⁾			
1 operation	U = 600 V; 1 s	2	A
Insulation resistance at 100 V _{DC} ⁴⁾		> 1	G Ω
Capacitance at 1 MHz ⁴⁾		< 1.5	pF
Transverse delay time ⁴⁾		< 0.2	μ s
Arc voltage at 1 A		~ 10	V
Glow to arc transition current		~ 1	A
Glow voltage		~ 60	V
Weight		~ 0.8	g
Storage temperature		-40 ... +90	°C
Climatic category (IEC 60068-1)		40/ 90/ 21	

Marking, blue negative

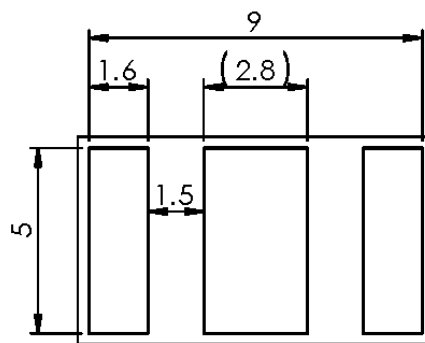
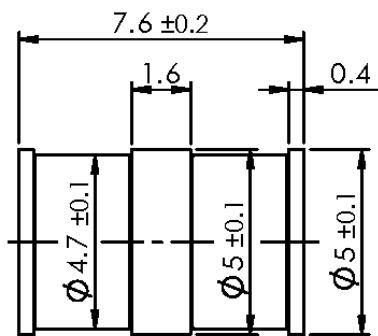
EPCOS
230 YY O

230 - Nominal voltage
YY - Year of production
O - Non radioactive

- 1) At delivery AQL 0.65 level II, DIN ISO 2859
- 2) In ionized mode
- 3) Tip or ring electrode to center electrode
- 4) Tip to ring electrode
- 5) Total current through center electrode, half value through tip respectively ring electrode
- 6) Total current through center electrode, same value through tip respectively ring electrode
- 7) Total current from ring to tip electrode
- 8) Test in accordance with ITU-Rec. K.12

Terms in accordance with ITU-T Rec. K.12; IEC 61663-2 and IEC 61643-311.

Dimensional drawing in mm

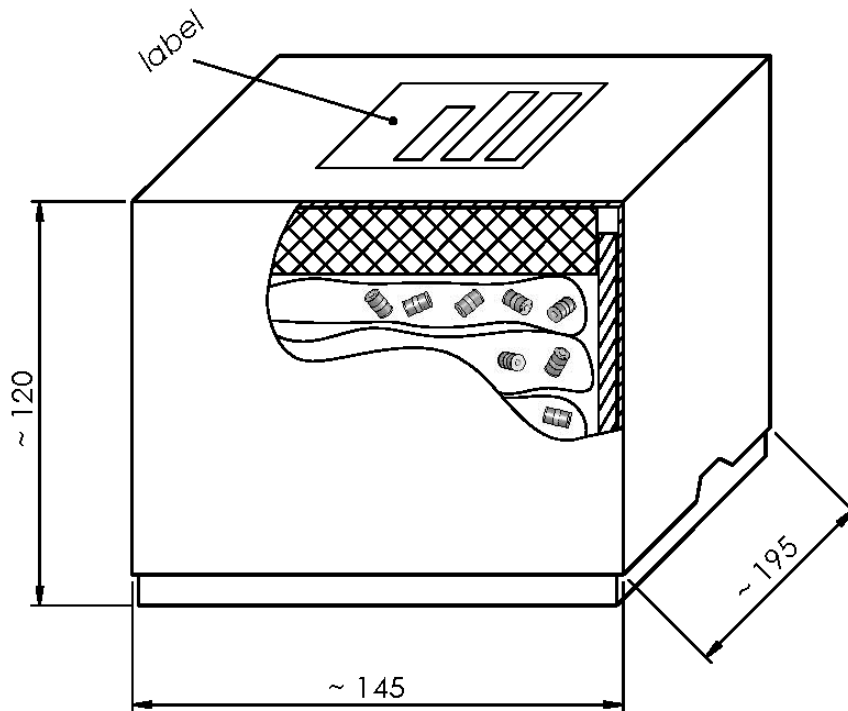


recommended pad outline

tin-plated

Ordering code and packing advice

B88069X6700C253 = container with 2500 pcs.


Cautions and warnings

- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the lead contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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