

# Surge arrester

2-electrode arrester

 Series/Type:
 A80-A230XSMD

 Ordering code:
 B88069X1620T602

 Version/Date:
 Issue 05 / 2014-01-08

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#### Surge arrester

#### 2-electrode arrester

Features

- Standard size
- Fast response time
- High current rating
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Excellent SMD handling
- RoHS-compatible

# Applications

- Branch exchange (MDF)
- Line protection
- Subscriber protection

230	V
± 20	%
< 500	V
< 450	V
< 650	V
< 550	V
20	Α
100	Α
20	κΑ
25	κΑ
2.5	κΑ
200	Α
> 10	ΟΩ
< 1.5	ΦF
~ 15	V
~ 0.5	Α
~ 60	V
~ 1.5	g
-40 +90	°C
40/ 90/ 21	I
230 - Nominal vol	tage
YY - Year of proc	duction
	$ \begin{array}{c} \pm 20 \\ < 500 \\ < 450 \\ < 650 \\ < 550 \\ \end{array} $ 20 100 20 25 2.5 200 $> 10$ $< 1.5$ $\sim 15$ $\sim 0.5$ $\sim 60$ $< 1.5$ $\sim -40 \dots +90$ $40/90/21$ $ \begin{array}{c} \textbf{EPCOS 230 YY} \\ 230 \\ YY & - Year of proceeded \end{array} $

<sup>1)</sup> At delivery AQL 0.65 level II, DIN ISO 2859

<sup>2)</sup> In ionized mode

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

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## B88069X1620T602 A80-A230XSMD

# **公TDK**

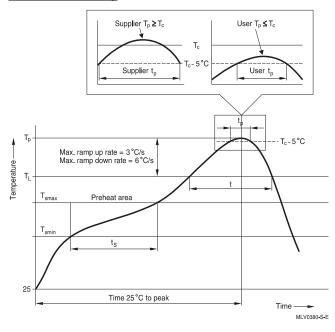
#### Surge arrester

### 2-electrode arrester

## B88069X1620T602 A80-A230XSMD

#### **Soldering parameters**

#### Reflow soldering

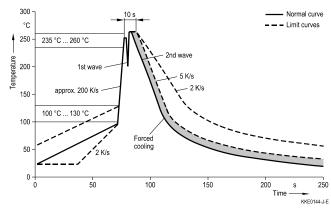


Reflow profile features		Sn- Pb eutectic assembly	Pb-free assembly
Preheat and soak - Temperature min - Temperature max - Time Average ramp-up rate	T <sub>smin</sub> T <sub>smax</sub> t <sub>smin</sub> to t <sub>smax</sub> T <sub>smax</sub> to T <sub>p</sub>	100 °C 150 °C 60 120 s max. 3 °C/ s	150 °C 200 °C 60 180 s max. 3 °C/ s
Liquidous temperature Time at liquidous	TL tL	183 °C 60 150 s	217 °C 60 150 s
Peak package body temperature *, Classification temperature **	Т <sub>р</sub> , Т <sub>С</sub>	220 235 °C **	245 260 °C **
Time (t <sub>p</sub> ) ** within 5 °C of the specified classification temperature (T <sub>C</sub> )		20 s ***	30 s ***
Average ramp-down rate	$T_p$ to $T_{smax}$	max. 6 °C/ s	max. 6 °C/ s
Time 25 °C to peak temperature		max. 6 min	max. 8 min

\*= Tolerance for peak profile temperature (T<sub>p</sub>) is defined as a supplier minimum and a user maximum.
 \*\* = For details please refer to JEDEC J-STD-020D.
 \*\*\*\* = Tolerance for time at peak profile temperature (t<sub>p</sub>) is defined as a supplier minimum and a user maximum and a user m

minimum and a user maximum.

#### Wave soldering



Soldering profile applied to a single soldering process.

Wave profile features	Pb-free assembly
Solder	Sn 95.5 / Ag 3.8 / Cu 0.7
Solder bath temperature	263 (±3) °C
Dwell time	< 3 s

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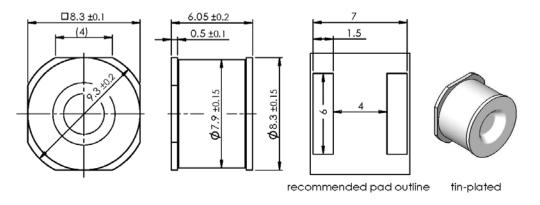


#### Surge arrester

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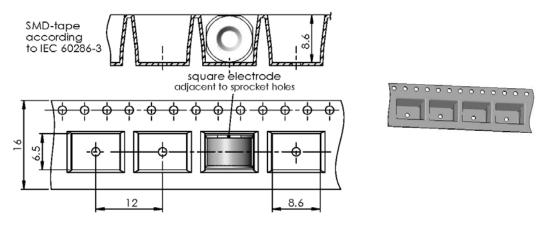
B88069X1620T602 A80-A230XSMD

#### Dimensional drawing in mm



#### Ordering code and packing advice

B88069X1620**T602** = 600 pcs. on SMD-tape



#### **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).
- If the contacts of the surge arrester are defective, current stress can lead to the formation of sparks and loud noises.
- 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.
- Surge arresters must be handled with care and must not be dropped.
- Damaged surge arresters must not be re-used.

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Please read Cautions and warnings and Important notes at the end of this document. Issue 05 / 2014-01-08

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