



## Surge arrester

2-electrode arrester

**Series/Type:** ES400XSMD  
**Ordering code:** B88069X5591T902  
Version/Date: Issue 02 / 2007-01-12

Features	Applications
<ul style="list-style-type: none"> <li><i>f</i> Extremely small size</li> <li><i>f</i> Extremely fast response time</li> <li><i>f</i> Stable performance over life</li> <li><i>f</i> Extremely low capacitance</li> <li><i>f</i> High insulation resistance</li> <li><i>f</i> Excellent SMD handling</li> <li><i>f</i> RoHS-compatible</li> </ul>	<ul style="list-style-type: none"> <li><i>f</i> Modem</li> <li><i>f</i> Consumer electronics</li> <li><i>f</i> Tuner</li> </ul>

**Electrical specifications**

DC spark-over voltage <sup>1) 2)</sup>	400 ± 15	V %
Impulse spark-over voltage		
at 100 V/μs   - for 99 % of measured values	< 800	V
- typical values of distribution	< 750	V
at 1 kV/μs   - for 99 % of measured values	< 1000	V
- typical values of distribution	< 850	V
Service life		
10 operations   50 Hz; 1 s	2.5	A
10 operations   8/20 μs	2.5	kA
1 operation    8/20 μs	5	kA
Insulation resistance at 100 V <sub>dc</sub>	> 1	GK
Capacitance at 1 MHz	< 1	pF
Arc voltage at 1 A	~ 11	V
Glow to arc transition current	< 0.5	A
Glow voltage	~ 80	V
Weight	~ 1	g
Operation and storage temperature	-40 ... +90	°C
Climatic category (IEC 60068-1)	40/ 90/ 21	
Marking, red negative	<b>EPCOSES 400 YY O</b> ES   - Series 400   - Nominal voltage YY   - Year of production O    - Non radioactive	

<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 and DIN 57845/VDE0845





