



Switching Spark Gap

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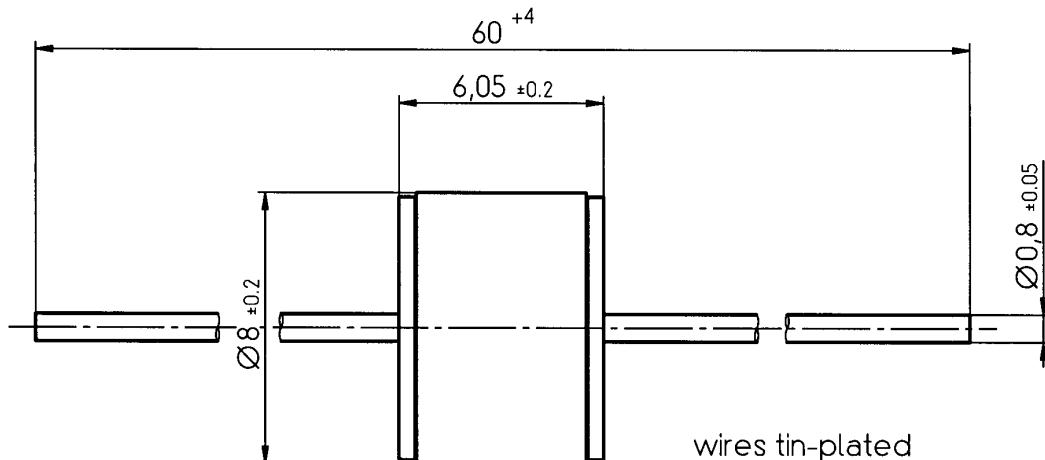
DC spark-over voltage ^{1) 2)}	215 ... 255	V		
Initial values				
Ignition time t_i after 150 hours in darkness ³⁾	95 ≤ 4 ≤ 2	99.9 ≤ 5 ≤ 3	100 ≤ 7 ≤ 4	% s s
Electrical life time A				
Maximum increase of DC spark-over voltage	25	V		
Switching operations at +25; 125 °C				
Switching frequency 10 ... 25 Hz	2 000 000	Ignitions		
Switching frequency < 10 Hz	4 000 000	Ignitions		
Test circuit parameters; 1 s ON, 10 s OFF				
Open circuit voltage V_0	230	V_{ac}		
Loading resistance R	15	kΩ		
Discharge capacitance C	2.2	μF		
Inductance L	10	μH		
Discharge peak current I_P	~ 300	A		
Electrical life time B				
Switching operations at +25 °C				
Switching frequency 1000 Hz	600 000	Ignitions		
Test circuit parameters; 1 cycle 10 min ON				
Open circuit voltage V_0	230	V_{ac}		
Loading resistance R	1.5	kΩ		
Discharge capacitance C	0.1	μF		
Inductance L	7	μH		
Discharge peak current I_P	~ 300	A		
Insulation resistance at 100 V _{dc}	> 0.1	GΩ		
Capacitance at 1 MHz	< 2	pF		
Weight	~ 1.5	g		
Operation and storage temperature	-20 ... +125	°C		
Climatic category (IEC 60068-1)	20/ 125/ 21			
Marking, red	EPCOS CS 230 YYMM O CS - Series 230 - Nominal voltage YY - Year of production MM - Month of production O - Non radioactive			

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

²⁾ In ionized mode, after load

³⁾ Time from capacitor charged to the first high voltage spark

 Test circuit: $V_{ac} = 198$ V; $R = 36$ kΩ; $C = 2.2$ μF

*Dimensions in mm**Non controlled document*

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