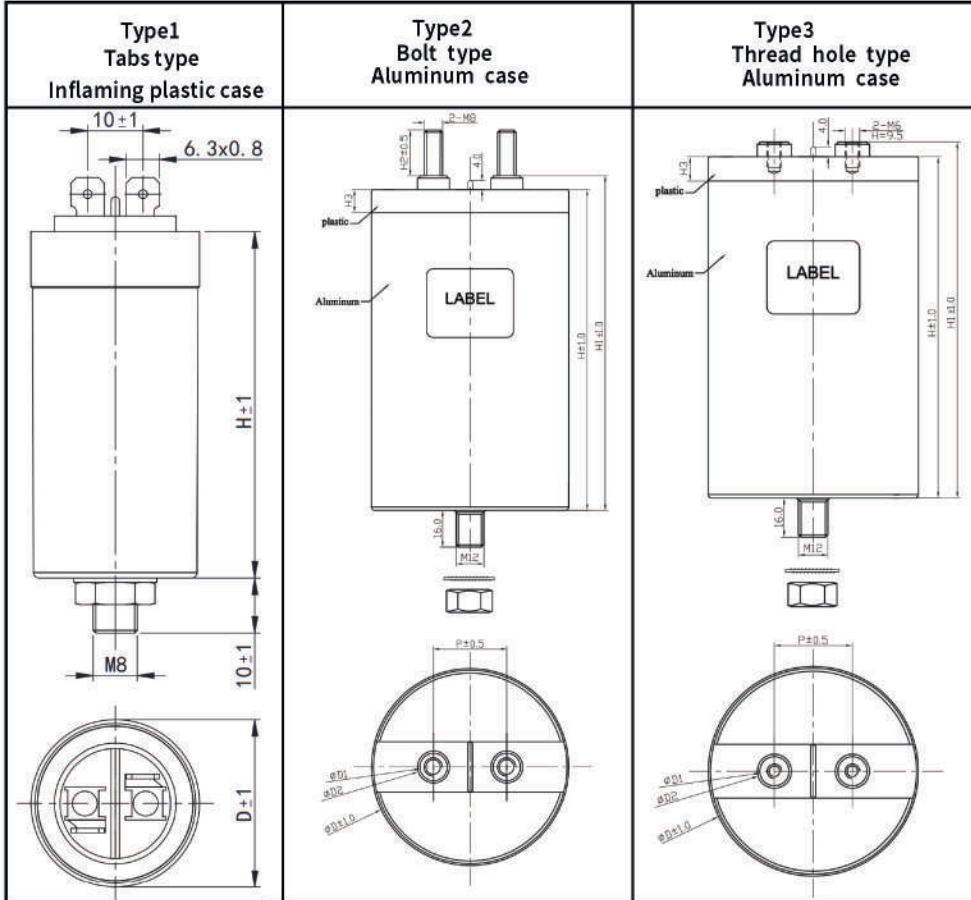


C3G

Snubber capacitor for high voltage, high current pulses(Dry type)

■ Outline Drawing



■ Features

- Low loss and small inherent temperature rise
- Low ESR, Low L_s , can withstanding high r.m.s current
- Self-healing property
- Filled with resin

■ Applications

- High ripple current D.C. filtering
- For high pulse and high frequency application



Specifications

Reference Standard	GB/T 17702(IEC 61071)		
Climatic Category	40/85/56		
Operating temperature range(case)	-40°C~ 85°C		
Rated Voltage (U _N)	1 400Vdc~ 4 000Vdc		
Capacitance Tolerance	±5%(J), ±10%(K)		
Test voltage between terminals(U _{T-T})	1.5U _N (dc), (10s)		
Test voltage between case and terminal (U _{T-C})	U _N <1 500Vdc, 3 000Vac(10s, 50Hz, 20°C±5°C) U _N ≥1 500Vdc, ($\sqrt{2}$ U _N +1 000)Vac(10s, 50Hz, 20°C±5°C)		
Dielectric dissipation factor (tanδ _d)	2×10 ⁻⁴		
Insulation Resistance (IR×C _N)	≥10 000s(20°C, 500Vdc, 1min)		
Expected lifetime	≥100 000h @ U _N , θ _{ns} =70°C		
Max. Torque of terminals	M6: 5N·m	M8: 6N·m	M12: 8N·m
Installation	Terminal form	Tabs type Bolt type Thread hole type	
	Fixed style	Bottom-bolt	
		Ring-clip in the middle of case	
Max. Torque of Installation	Plastic case	M8: 3N·m	
	Aluminum case	M8: 5N·m	M10: 7N·m M12: 10N·m

C _N (μF)	U _N (Vdc)	U _{rms} (Vac)	dV/dt (V/μs)	İ (A)	İ _s (A)	I _{max} 100kHz@70°C (A)	ESR @100kHz (mΩ)	L _s (nH)	D (mm)	H (mm)	Part number	外形样式 Shape style
0.1	1400	1000	900	90	270	10	12.0	63	30	63	C3G3M104+*****	Type1
0.22	1400	1000	900	198	594	13	10.0	80	40	63	C3G3M224+*****	Type1
0.33	1400	1000	900	297	891	13	10.0	80	40	63	C3G3M334+*****	Type1
0.47	1400	1000	900	423	1269	13	10.0	80	50	63	C3G3M474+*****	Type1
0.68	1400	1000	900	612	1836	18	8.0	80	50	63	C3G3M684+*****	Type1
1.0	1400	1000	900	900	2700	18	8.0	80	50	63	C3G3M105+*****	Type1
0.47	2500	1485	1200	564	1692	13	15.0	150	40	95	C3G3E474+*****	Type1

- Note: 1. “-” =capacitance tolerance code, J=±5%, K=±10%.
 2. “*” = Pitch (refer to table 1) .
 3. “****” =terminal form code(refer to table 2)
 4. “#” when the rated voltage is 630Vdc, the digit 4~5 is 2.J.
 5. “I_{max}” at 100kHz, θ_{amb}=70°C, θ_{case}=85°C.
 6. “ESR” 、 “L_s” are typical values.

Part number system

The 15 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	3	G												

Digit 1 to 3 Series code

C3G

Digit 4 to 5 D.C. rated voltage

3M=1 400V 3D=2 000V 1N=2 400V 3E=2 500V 3G=4 000V

Digit 6 to 8 Rated capacitance value

for example: 105=10×10⁵pF=1.0μF

Digit 9 Capacitance tolerance

J=±5%, K=±10%, M=±20%

Digit 10~15 Internal use