CG/CA Series

Low impedance, Smaller in size (solvent proof)

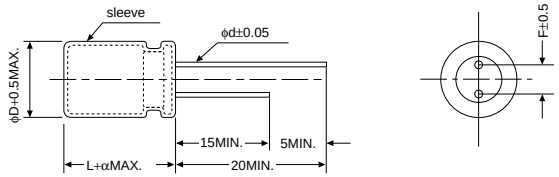
CG/CA series is 1 rank smaller than standard AG series (30%)
CG/CA series has an effect on high performance, miniaturization for any products, and solvent proof (within 5 minutes).

CG / CA ⇐ mini AG

■ Specifications

Items		Specifications					
Rated voltage (V)		6.3	10	16	25	35	50
Operating temperature range (°C)		−55 to +105					
Capacitance tolerance (%)		±20 (120Hz)					
Tangent of loss angle (tan δ) (MAX.)		0.28	0.24	0.20	0.16	0.14	0.12
		0.02 to be added to the above value every time nominal capacitance exceeds 1000µF. (120Hz)					
Leakage current (L.C.)(µA/after 2min.)(MAX.)		The greater value of either 0.01CV or 3					
Impedance (120Hz) ratio at low temperature (MAX.)	$Z_{-40°C}/Z_{20°C}$	3	3	2	2	2	2
	$Z_{-55°C}/Z_{20°C}$	6	5	4	4	3	3
High-temperature load rated voltage applied	Test	105°C 3000hrs. (φD≤8, 1000hrs. φD=10, 2000hrs.)					
	ΔC/C	Within ±25% of the initial value					
	tan δ	≤ Twice the initial standard					
	L.C.	≤ The initial standard					
Other characteristics		Conform to IEC 384-4					

■ Dimensions

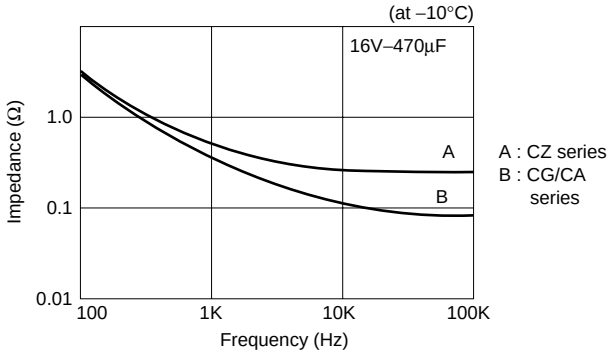


α : L<20 α=1.5, L≥20 α=2.0
A pressure relief vent is attached to products over φD=8

(unit : mm)

φD	5	6.3	8	10	12.5	16
F	2.0	2.5	3.5	5.0	5.0	7.5
φd	0.5	0.5	0.6	0.6	0.6	0.8

■ Impedance VS. Frequency



■ Size List

(φD×Lmm)

µF \ V	6.3	10	16	25	35	50
0.47						5×11
1.0						5×11
2.2						5×11
3.3						5×11
4.7						5×11
10						5×11
22						5×11
33					5×11	5×11
47					5×11	6.3×11
100			5×11	6.3×11	6.3×11	8×11.5
220	5×11	6.3×11	6.3×11	8×11.5	8×11.5	10×12.5
330	6.3×11	6.3×11	8×11.5	8×11.5	10×12.5	10×16
470	6.3×11	8×11.5	8×11.5	10×12.5	10×16	10×20
1000	8×11.5	10×12.5	10×16	10×20	12.5×20	12.5×25
2200	10×16	10×20	12.5×20	12.5×25	16×25	16×31.5
3300	10×20	12.5×20	12.5×25	16×25	16×35.5	
4700	12.5×20	12.5×25	16×25	16×31.5		
6800	12.5×25	16×25	16×31.5			
10000	16×25	16×31.5				
15000	16×35.5					

Model No. 16MV2200CG/CA
- 2200µF, nominal capacitance
- 16V, rated voltage

■ Impedance, Maximum Permissible Ripple Current

V / μF	6.3		10	
	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)
220	0.50	180	0.30	280
330	0.30	280	0.24	280
470	0.24	280	0.16	410
1000	0.15	560	0.086	710
2200	0.066	950	0.047	1150
3300	0.047	1150	0.042	1460
4700	0.042	1460	0.031	1780
6800	0.031	1780	0.026	2000
10000	0.026	2000	0.022	2200
15000	0.022	2200		

V / μF	16		25	
	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)
100	0.50	180	0.30	280
220	0.24	280	0.16	410
330	0.16	410	0.15	560
470	0.15	560	0.086	710
1000	0.066	950	0.047	1150
2200	0.042	1460	0.035	1780
3300	0.035	1780	0.026	2000
4700	0.026	2000	0.022	2200
6800	0.022	2200		

V / μF	35		50	
	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)	Impedance (ΩMAX.) (20°C/100kHz)	Ripple current (mArms) (105°C/10k to 200kHz)
0.47			5.5	20
1.0			3.3	30
2.2			3.0	45
3.3			2.7	55
4.7			2.0	90
10			1.7	110
22			1.2	120
33	0.72	180	0.95	130
47	0.50	180	0.56	190
100	0.24	280	0.30	320
220	0.15	560	0.16	520
330	0.086	710	0.12	670
470	0.066	950	0.088	820
1000	0.042	1460	0.053	1200
2200	0.026	2000	0.029	1750
3300	0.022	2200		