

Screw terminals

Very long lifetime

High CV product

High-temp 125°C

Low inductance ESL

Low temperature – 55°C

RoHS compliant

REACH compliant

Features

- All internal contact welded
- High temp 125°C
- Long useful life
- Low inductance ESL

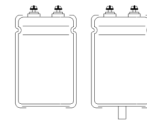
Applications

- Computer
- Industrial
- Inverter/drives
- Welding

Different case sizes, voltages and capacitance combinations are available on request. Also in small lots.

General specifications

Items		Characteristics
Rated capacitance range C_R		3.900 ... 330.000 μF
Capacitance tolerance		$\pm 20\%$
Rated voltage range U_R		16 ... 63 V
Surge voltage U_S		$U_S = 1,15 U_R$
Max. reverse voltage / ESL		2 V / 13 nH
Category temperature range		- 55°C ... + 125°C
Leakage current I_L after 5 min @ U_R		$\leq 0,008 * C_R [\mu\text{F}] * U_R [\text{V}] + 6 \mu\text{A} [\mu\text{A}]$
Useful life	2000 h @ 125 °C ; U_R ; I_{R-}	<i>Requirements</i> $\Delta C/C \leq 30\%$ of initial value $ESR \leq 300\%$ of specified limit $I_L \leq$ specified limit
Endurance test	1000 h @ 125 °C , U_R	<i>Requirements</i> $\Delta C/C \leq 20\%$ of initial value $ESR \leq 130\%$ of specified limit $I_L \leq$ specified limit
Climatic category IEC 60068		55/125/56
Voltage proof of the external insulation		≥ 2500 V AC
Sectional specification		IEC 60384-4



Electrical data and ordering code for series GG

Rated voltage U_R [V]	Rated cap. C_R [μF]	Case size D x L [mm]	Typ. ESR 100 Hz, 20°C [mΩ]	Ripple current IR~ 100 Hz, 125°C [A]	Order code
					Plain base: GGA...
					Stud mounting: GGB...
16	27000	35x55	17	5,4	27301635055
	39000	40x55	11	6,6	39301640055
	47000	35x70	9	7,8	47301635070
	56000	35x80	8	9,0	56301635080
	56000	40x70	8	8,6	56301640070
	68000	35x100	7	10,8	68301635100
	68000	40x80	7	10,0	68301640080
	68000	45x70	7	9,5	68301645070
	68000	45x100	7	11,0	68301645100
	82000	50x70	5	11,2	82301650070
	100000	50x80	4	13,0	10401650080
	120000	40x100	4	14,6	12401640100
	150000	50x100	3	17,3	15401650100
25	18000	35x55	25	4,4	18302535055
	22000	35x70	20	5,3	22302535070
	22000	40x55	20	4,9	22302540055
	27000	35x80	17	6,2	27302535080
	33000	40x70	14	6,6	33302540070
	39000	35x100	11	8,2	39302535100
	39000	40x80	11	7,6	39302540080
	39000	45x70	11	7,2	39302545070
	47000	40x100	9	9,1	47302540100
	47000	50x70	9	8,5	47302550070
	56000	45x100	8	9,9	56302545100
	56000	50x80	8	9,7	56302550080
	82000	50x100	5	12,8	82302550100

Rated voltage U_R [V]	Rated cap. C_R [μF]	Case size D x L [mm]	Typ. ESR 100 Hz, 20°C [mΩ]	Ripple current IR~ 100 Hz, 125°C [A]	Order code	
					Plain base: GGA...	
					Stud mounting: GGB...	
40	8200	35x55	47	3,2	82204035055	
	12000	40x55	32	3,9	12304040055	
	12000	35x70	32	4,2	12304035070	
	15000	35x80	25	5,0	15304035080	
	15000	40x70	25	4,8	15304040070	
	18000	35x100	21	6,0	18304035100	
	18000	40x80	21	5,6	18304040080	
	18000	45x70	21	5,3	18304045070	
	22000	50x70	17	6,3	22304050070	
	27000	40x100	14	7,5	27304040100	
	27000	50x80	14	7,3	27304050080	
	33000	45x100	12	8,2	33304045100	
	39000	50x100	10	9,5	39304050100	
	63	3900	35x55	73	2,5	39206335055
		4700	40x55	61	2,8	47206340055
5600		35x70	51	3,3	56206335070	
6800		35x80	42	3,9	68206335080	
6800		40x70	42	3,8	68206340070	
8200		35x100	35	4,7	82206335100	
8200		40x80	35	4,3	82206340080	
8200		45x70	35	4,1	82206345070	
10000		50x70	29	4,9	10306350070	
12000		40x100	24	5,8	12306340100	
12000		50x80	24	5,6	12306350080	
12000		45x100	24	5,7	12306345100	
18000		50x100	16	7,5	18306350100	

Useful life

as a function of ambient temperature and actual ripple current

