

GH Series

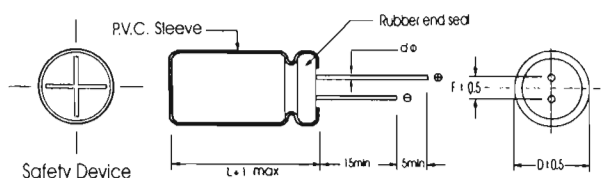
Features

- Low impedance for high frequency.
- Load life 105 °C, 5000 hours assured
- Low length (Max 25 mm height).
- For detail specifications, please refer to engineering Bulletin No. E119

Specifications

Item	Performance Characteristics																
Operating Temperature Range	-55 to +105 °C																
Rate Working voltage Range	6.3 to 63 VDC																
Nominal Capacitance Range	0.47 to 4700 μ F																
Capacitance Tolerance	$\pm$ 20%(120Hz,+20 °C)																
Leakage Current (+20 °C)	$I \leq 0.01 CV$ or $2 (\mu A)$																
	After 2 minutes whichever is greater measured with rate working voltage applied.																
Dissipation Factor (120Hz,+20 °C)	<table><tr><td>Working Voltage (VDC)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td></tr><tr><td>D.F. .Max(%)</td><td>15</td><td>12</td><td>11</td><td>9</td><td>8</td><td>6</td><td>5</td></tr></table> For capacitance > 1000 μF, and 2% per another 1000 μF.	Working Voltage (VDC)	6.3	10	16	25	35	50	63	D.F. .Max(%)	15	12	11	9	8	6	5
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D.F. .Max(%)	15	12	11	9	8	6	5										
Load Life	Test conditions Duration time :5000 Hrs (2000Hrs for $D \leq 8mm$) Ambient temperature :+105 °C Applied voltage :Rate DC working voltage After test requirements at + 20 °C Capacitance change : $\leq \pm$ 20% of the initial measured value Dissipation factor : $\leq$ 200% of the initial specified value Leakage current : $\leq$ The initial specified value																
Shelf Life	Test conditions Duration time : 1000 Hrs Ambient temperature : +105 °C Applied voltage : None After test requirements at +20 °C : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																

Diagram of Dimensions : (Unit = mm)



D ϕ	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d ϕ	0.5			0.6		0.8	

GS	H																		
1	2	3	4	5	6	7	8	9											
1. Series					6. Size(mm)					7. Lead Treatment					8. Special Requirement				
2. Capacitance					3. Capacitance tolerance					4. Rate Voltage					9. Spare				
5. Case ϕ D																			

Case Size Table: (Unit m/m)

WV(SV) μF	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)
0.47					→	5×11	5×11
1					→	5×11	5×11
2.2					→	5×11	5×11
3.3					→	5×11	5×11
4.7					→	5×11	5×11
10		→	5×11	5×11	5×11	5×11	5×11
22	→	5×11	5×11	5×11	6.3×11	6.3×11	6.3×11
33	→	5×11	5×11	6.3×11	6.3×11	6.3×11	8×12
47	→	5×11	6.3×11	6.3×11	6.3×11	8×12	8×12
100	5×11	6.3×11	6.3×11	8×12	8×12	10×13	13×17
220	6.3×11	8×12	8×12	10×13	13×13	13×17	16×17
330	8×12	8×12	10×13	13×13	13×17	13×17	16×17
470	8×12	10×13	13×13	13×17	13×17	16×17	18×20
1000	13×13	13×17	13×17	16×20	16×20	18×25	—
2200	16×17	16×17	16×20	18×20	—	—	—
3300	16×20	18×20	18×20	—	—	—	—
4700	18×20	18×25	—	—	—	—	—

Maximum Ripple Current: (Unit mA, rms, 100KHz at 105°C)

WV(SV) μF	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)
0.47	—	—	—	—	—	15	16
1	—	—	—	—	—	25	27
2.2	—	—	—	—	—	33	38
3.3	—	—	—	—	—	45	48
4.7	—	—	—	—	—	58	62
10	—	—	37	56	70	100	105
22	—	56	70	120	130	135	150
33	—	58	130	150	175	230	265
47	—	120	190	230	250	285	351
100	185	225	260	300	390	385	460
220	300	390	435	450	560	670	820
330	390	445	480	575	780	925	1080
470	435	475	615	785	1010	1170	1350
1000	700	895	1090	1310	1530	1730	—
2200	1200	1440	1620	1840	—	—	—
3300	1350	1660	1880	—	—	—	—

Maximum Impedance : (Unit Ω , 100KHz at 20 °C)

WV(SV) μF	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)
0.47	—	—	—	—	—	6.30	6.30
1	—	—	—	—	—	4.00	4.00
2.2	—	—	—	—	—	2.80	2.80
3.3	—	—	—	—	—	2.40	2.40
4.7	—	—	—	—	—	2.40	2.40
10	—	—	5.20	2.90	2.80	2.00	1.90
22	—	2.90	2.80	2.00	1.50	1.30	0.80
33	—	2.80	2.00	1.56	1.30	0.80	0.61
47	—	1.44	1.36	1.30	0.80	0.70	0.56
100	1.1	0.60	0.50	0.35	0.25	0.21	0.2
220	0.7	0.35	0.25	0.21	0.14	0.10	0.1
330	0.35	0.25	0.18	0.15	0.10	0.078	0.078
470	0.25	0.21	0.14	0.11	0.084	0.060	0.063
1000	0.13	0.10	0.084	0.066	0.050	0.036	—
2200	0.078	0.060	0.048	0.040	—	—	—
3300	0.065	0.045	0.039	—	—	—	—
4700	0.050	0.035	—	—	—	—	—