

Radial Lead Type

Series: **GA** Type: **A**

■ Features

- Endurance : 105 °C 1000 h
- RoHS directive compliant



■ Specifications

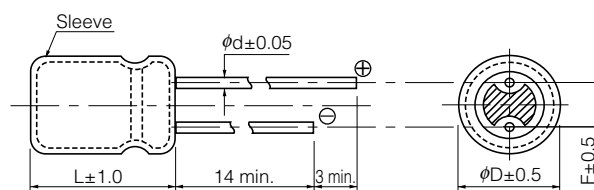
Category Temp. Range	-55 °C to +105 °C	
Rated W.V. Range	10 V.DC to 50 V.DC	
Nominal Cap. Range	1.5 μF to 220 μF	
Capacitance Tolerance	±20 % (120 Hz/+20 °C)	
DC Leakage Current	I ≤ 0.01 CV or 3 (μA) After 2 minutes (Whichever is greater)	
tan δ	Please see the attached standard products list	
Endurance	After following life test with DC voltage and +105 °C±2 °C ripple current value applied (The sum of DC and ripple peak voltage shall not exceed the rated working voltage), for 1000 hours, when the capacitors are restored to 20 °C, the capacitors shall meet the limits specified below.	
	Capacitance change	±20 % of initial measured value
	tan δ	≤ 200 % of initial specified value
	DC leakage current	≤ initial specified value
Shelf Life	After storage for 1000 hours at +105 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)	

■ Frequency correction factor for ripple current

W.V.(V.DC)	Cap (μF)	Frequency (Hz)				
		60	120	1 k	10 k	100 k to
10 to 50	1.5 to 220	0.85	1.00	1.30	1.40	1.55

■ Dimensions in mm(not to scale)

(Unit : mm)



Body Dia. φD	4	5	6.3	8
Lead Dia. φd	0.45	0.45	0.45	0.45
Lead space F	1.5	2.0	2.5	2.5

Standard Products

Endurance : 105 °C 1000 h

W.V.	Cap. (±20 %)	Case size		Specification			Lead Length			Part No.	Min. Packaging Qty		
		Dia.	Length	Ripple Current (120 Hz) (+105 °C) (mA r.m.s.)	tan δ (120 Hz) (+20 °C)	Endurance (hours)	Lead Dia. (mm)	Lead Space			Straight Leads (pcs)	Taping (pcs)	
								Straight (mm)	Taping *B (mm)				Taping *H (mm)
(V)	(μF)	(mm)	(mm)										
10	22	4	7	30	0.22	1000	0.45	1.5	5.0	2.5	EEAGA1A220()	200	2000
	33	5	7	50	0.22	1000	0.45	2.0	5.0	2.5	EEAGA1A330()	200	2000
	47	6.3	7	65	0.22	1000	0.45	2.5	5.0	2.5	EEAGA1A470()	200	2000
	68	6.3	7	75	0.22	1000	0.45	2.5	5.0	2.5	EEAGA1A680()	200	2000
	100	6.3	7	110	0.22	1000	0.45	2.5	5.0	2.5	EEAGA1A101()	200	2000
	220	8	7	160	0.22	1000	0.45	2.5	5.0	2.5	EEAGA1A221()	200	1000
16	10	4	7	30	0.18	1000	0.45	1.5	5.0	2.5	EEAGA1C100()	200	2000
	15	4	7	33	0.18	1000	0.45	1.5	5.0	2.5	EEAGA1C150()	200	2000
	22	5	7	50	0.18	1000	0.45	2.0	5.0	2.5	EEAGA1C220()	200	2000
	33	6.3	7	65	0.18	1000	0.45	2.5	5.0	2.5	EEAGA1C330()	200	2000
	47	6.3	7	77	0.18	1000	0.45	2.5	5.0	2.5	EEAGA1C470()	200	2000
	100	8	7	120	0.18	1000	0.45	2.5	5.0	2.5	EEAGA1C101()	200	1000
25	10	4	7	33	0.16	1000	0.45	1.5	5.0	2.5	EEAGA1E100()	200	2000
	15	5	7	45	0.16	1000	0.45	2.0	5.0	2.5	EEAGA1E150()	200	2000
	22	5	7	50	0.16	1000	0.45	2.0	5.0	2.5	EEAGA1E220()	200	2000
	33	6.3	7	75	0.16	1000	0.45	2.5	5.0	2.5	EEAGA1E330()	200	2000
	68	8	7	100	0.16	1000	0.45	2.5	5.0	2.5	EEAGA1E680()	200	1000
35	6.8	4	7	33	0.13	1000	0.45	1.5	5.0	2.5	EEAGA1V6R8()	200	2000
	10	5	7	35	0.13	1000	0.45	2.0	5.0	2.5	EEAGA1V100()	200	2000
	15	6.3	7	50	0.13	1000	0.45	2.5	5.0	2.5	EEAGA1V150()	200	2000
	22	6.3	7	70	0.13	1000	0.45	2.5	5.0	2.5	EEAGA1V220()	200	2000
	47	8	7	96	0.13	1000	0.45	2.5	5.0	2.5	EEAGA1V470()	200	1000
50	0.1	4	7	1.1	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1HR10()***	200	2000
	0.15	4	7	1.7	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1HR15()***	200	2000
	0.22	4	7	2.3	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1HR22()***	200	2000
	0.33	4	7	3.5	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1HR33()***	200	2000
	0.47	4	7	5	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1HR47()***	200	2000
	0.68	4	7	7	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1HR68()***	200	2000
	1	4	7	10	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1H1R0()***	200	2000
	1.5	4	7	16	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1H1R5()	200	2000
	2.2	4	7	18	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1H2R2()	200	2000
	3.3	4	7	22	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1H3R3()	200	2000
	4.7	4	7	26	0.10	1000	0.45	1.5	5.0	2.5	EEAGA1H4R7()	200	2000
	6.8	5	7	35	0.10	1000	0.45	2.0	5.0	2.5	EEAGA1H6R8()	200	2000
	10	6.3	7	39	0.10	1000	0.45	2.5	5.0	2.5	EEAGA1H100()	200	2000
	15	6.3	7	55	0.10	1000	0.45	2.5	5.0	2.5	EEAGA1H150()	200	2000
22	8	7	70	0.10	1000	0.45	2.5	5.0	2.5	EEAGA1H220()	200	1000	
33	8	7	91	0.10	1000	0.45	2.5	5.0	2.5	EEAGA1H330()	200	1000	

· When requesting taped product, please put the letter "B" or "H" between the "()". Lead wire pitch *B=5 mm, H=2.5 mm.

Suffix "BQ" for ø8×7, 5mm pitch products

· Please refer to the page of "Taping Dimensions".

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