

### Radial Lead Type

Series: GA(Bi-polar) Type : A

Country of Origin

Japan  
Malaysia  
China  
Taiwan

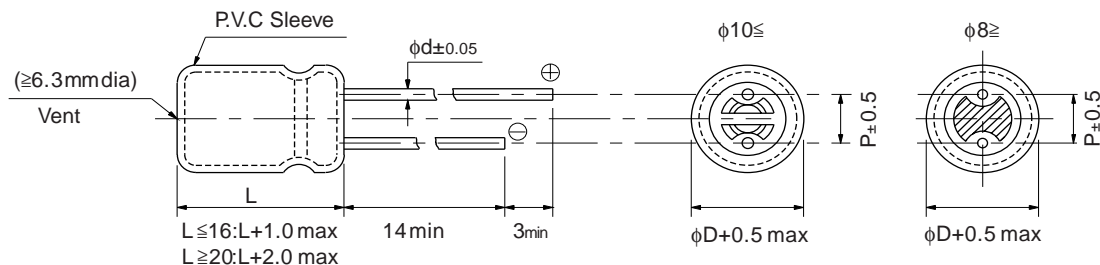


■ Features Endurance:105°C 1000 h to 2000 h

#### ■ Specifications

Category temp.range	-40 to +105°C								
Rated W.V. Range	6.3 to 50 V .DC								
Nominal Cap. Range	0.47 to 330 μ F								
Capacitance Tolerance	±20 % (120Hz/+20°C)								
DC Leakage Current	I ≤ 0.03 CV + 3(μ A) after 2 minutes I ≤ 0.03 CV or 3(μ A) after 5 minutes (Whichever , greater)								
Dissipation Factor	Please see the attached standard products list								
Characteristics at Low Temperature	W.V. (V)	6.3	10	16	25	35	50	(Impedance ratio at 120Hz)	
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2		
	Z(-40°C)/Z(+20°C)	8	6	4	4	4	3		
Endurance	After (*1) hours application of DC working voltage (*2 hours for each polarity) at +105°C, the capacitor shall meet the following limits.								
	Capacitance change	± 20% of initial measured value					Case size	*1	*2
	tan δ	≤ 200 % of initial specified value					φ5 to φ8	1000 h	500 h
	DC leakage current	≤ initial specified value					φ10	2000 h	1000 h
Shelf Life	After storage for 1000 hours at +105±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in "Endurance". (With voltage treatment)								

#### ■ Dimensions in mm (not to scale)



Body Dia. φD	5	6.3	8	10
Lead Dia. φd	0.5	0.5	0.6	0.6
Lead space P	2.0	2.5	3.5	5.0

■Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Lead Length				Part No.	Min. Packaging Qty	
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (mA)	tan δ (120Hz) (+20°C)	Lead Dia. (mm)	Lead Space				Straight Leads (pcs)	Taping (pcs)
							Straight (mm)	Taping *B (mm)	Taping *i (mm)			
6.3	100	6.3	11.2	130	0.30	0.5	2.5	5.0	2.5	ECA0JEN101( )	200	2000
	330	8	11.5	250	0.30	0.6	3.5	5.0		ECA0JEN331( )	200	1000
10	47	5	11	90	0.24	0.5	2.0	5.0	2.5	ECA1AEN470( )	200	2000
16	10	5	11	40	0.20	0.5	2.0	5.0	2.5	ECA1CEN100( )	200	2000
	22	5	11	60	0.20	0.5	2.0	5.0	2.5	ECA1CEN220( )	200	2000
	33	5	11	80	0.20	0.5	2.0	5.0	2.5	ECA1CEN330( )	200	2000
	47	6.3	11.2	100	0.20	0.5	2.5	5.0	2.5	ECA1CEN470( )	200	2000
25	10	5	11	45	0.15	0.5	2.0	5.0	2.5	ECA1EEN100( )	200	2000
	22	6.3	11.2	60	0.15	0.5	2.5	5.0	2.5	ECA1EEN220( )	200	2000
	33	6.3	11.2	90	0.15	0.5	2.5	5.0	2.5	ECA1EEN330( )	200	2000
	47	6.3	11.2	110	0.15	0.5	2.5	5.0	2.5	ECA1EEN470( )	200	2000
	100	8	11.5	180	0.15	0.6	3.5	5.0		ECA1EEN101( )	200	1000
35	33	8	11.5	100	0.15	0.6	3.5	5.0		ECA1VEN330( )	200	1000
	100	10	16	230	0.15	0.6	5.0	5.0		ECA1VEN101( )	200	500
50	0.47	5	11	10	0.15	0.5	2.0	5.0	2.5	ECA1HENR47( )	200	2000
	1	5	11	10	0.15	0.5	2.0	5.0	2.5	ECA1HEN010( )	200	2000
	2.2	5	11	18	0.15	0.5	2.0	5.0	2.5	ECA1HEN2R2( )	200	2000
	3.3	5	11	25	0.15	0.5	2.0	5.0	2.5	ECA1HEN3R3( )	200	2000
	4.7	5	11	30	0.15	0.5	2.0	5.0	2.5	ECA1HEN4R7( )	200	2000
	10	6.3	11.2	50	0.15	0.5	2.5	5.0	2.5	ECA1HEN100( )	200	2000
	22	8	11.5	90	0.15	0.6	3.5	5.0		ECA1HEN220( )	200	1000
	33	8	11.5	110	0.15	0.6	3.5	5.0		ECA1HEN330( )	200	1000
	47	10	12.5	140	0.15	0.6	5.0	5.0		ECA1HEN470( )	200	500
	100	10	20	250	0.15	0.6	5.0	5.0		ECA1HEN101( )	200	500

When requesting taped product, please put the letter "B" or "i" between the "( )". Lead wire pitch B=5mm, 7.5mm. i=2.5mm.

The taping dimentions are explained on p.188 of our Catalog. Please use it as a reference guide.

Endurance : φ5 to φ8 :105°C 1000 h

φ10 :105°C 2000 h