### Radial Lead Type

Series: NHG Type: A

■ Features

• Endurance: 105 °C 1000 h to 2000 h

RoHS directive compliant



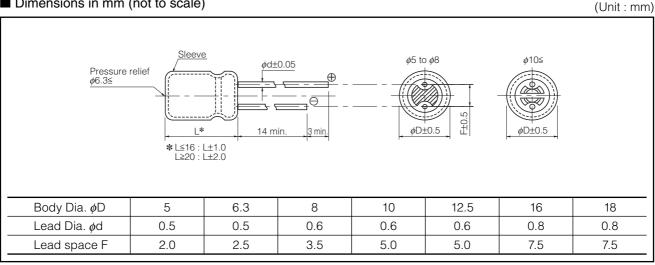
Specifications

- Opcomodions								
Category Temp. Range	−55 °C t	o +105 °C	−25 °C to +105 °C					
Rated W.V. Range	6.3 V.DC	to 100 V.DC	160 V.DC to 450 V.DC					
Nominal Cap. Range	0.1 µF to	22000 μF	1.0 μF to 330 μF					
Capacitance Tolerance		±20 % (120	Hz/+20 °C)					
DC Leakage Current		μΑ) After 2 minutes is greater)	I ≤ 0.06 CV +10 (μA) After 2 minutes					
tan $\delta$		Please see the attache	d 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), When the capacitors are restored to 20 °C, the capacitors shall meet the limits specified below.  Duration: 6.3 V.DC to 100 V.DC: $(\phi 5 \text{ to } \phi 8)$ =1000 hours, $(\phi 10 \text{ to } \phi 18)$ =2000 hours 160 V.DC to 450 V.DC: 2000 hours							
	Capacitance change	±20 % of initial measure	ed value					
	tan $\delta$	≤ 200 % of initial specified value						
	DC leakage current ≤ initial specified value							
Shelf Life			th no voltage applied and then being stabilized fied in Endurance. (With voltage treatment)					

#### ■ Frequency correction factor for ripple current

WW (VDC)	Cap. (μF)			Frequency (Hz)							
W.V.(V.DC)	Ca	.p. (p	ir)	60	120	1 k	10 k	100 k			
	0.1	to	33	0.75	1.00	1.55	1.80	2.00			
6.3 to 100	47	to	470	0.80	1.00	1.35	1.50	1.50			
	1000	to	22000	0.85	1.00	1.10	1.15	1.15			
160 to 450	1	to	330	0.80	1.00	1.35	1.50	1.50			

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



W.V.   Cap.			
No.	Min. Pack	Min. Packaging Q'ty	
Number   N			
(V) (µF) (mm) (mm) (mAr ms.) (hours) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (m	Straight Leads	Taping	
6.3   11.2   230   0.28   1000   0.5   2.5   5.0   2.5   ECA0JHG471()   1000   8   11.5   380   0.28   1000   0.6   3.5   5.0   ECA0JHG472()   2200   10   16   710   0.30   2000   0.6   5.0   5.0   ECA0JHG222()   3300   10   20   840   0.32   2000   0.6   5.0   5.0   ECA0JHG322()   1000   16   2.5   20   1090   0.34   2000   0.6   5.0   5.0   ECA0JHG322()   10000   16   2.5   1350   0.38   2000   0.6   5.0   5.0   ECA0JHG472()   10000   16   2.5   1350   0.38   2000   0.6   5.0   5.0   ECA0JHG472()   15000   16   31.5   2010   0.56   2000   0.8   7.5   ECA0JHG133()   15000   18   31.5   2010   0.56   2000   0.8   7.5   ECA0JHG133   22000   18   35.5   2350   0.70   2000   0.8   7.5   ECA0JHG133   22000   18   35.5   2350   0.70   2000   0.8   7.5   ECA0JHG133   22000   12.5   460   0.24   1000   0.6   3.5   5.0   ECA1AHG331()   22000   10   12.5   460   0.24   2000   0.6   5.0   5.0   ECA1AHG471()   1000   10   12.5   460   0.24   2000   0.6   5.0   5.0   ECA1AHG472()   2200   10   20   760   0.26   2000   0.6   5.0   5.0   ECA1AHG472()   2000   18   31.5   1890   0.42   2000   0.6   5.0   5.0   ECA1AHG332()   24700   18   35.5   2180   0.52   2000   0.8   7.5   ECA1AHG332()   24700   18   35.5   2180   0.52   2000   0.8   7.5   ECA1AHG332()   24700   18   35.5   2180   0.52   2000   0.8   7.5   ECA1AHG332()   24700   18   35.5   2180   0.52   2000   0.8   7.5   ECA1AHG332()   24700   18   35.5   2180   0.52   2000   0.8   7.5   ECA1AHG332()   24700   25.	(pcs)	(pcs)	
6.3    1000   8	200	2000	
6.3   2200   10   16   710   0.30   2000   0.6   5.0   5.0   ECAOJHG222()   3300   10   20   840   0.32   2000   0.6   5.0   5.0   ECAOJHG322()   6800   12.5   25   1350   0.38   2000   0.6   5.0   5.0   ECAOJHG322()   10000   16   25   1550   0.46   2000   0.8   7.5   7.5   ECAOJHG133()   15000   16   31.5   2010   0.56   2000   0.8   7.5   7.5   ECAOJHG133()   22000   18   35.5   2350   0.70   2000   0.8   7.5   ECAOJHG133()   22000   18   35.5   2350   0.70   2000   0.8   7.5   ECAOJHG133   22000   18   35.5   2350   0.70   2000   0.8   7.5   ECAOJHG133   22000   18   35.5   2350   0.70   2000   0.8   7.5   ECAOJHG133   22000   18   35.5   2350   0.70   2000   0.8   7.5   ECAOJHG133   22000   18   35.5   2350   0.70   2000   0.8   7.5   ECAOJHG133   22000   18   35.5   2350   0.72   2000   0.8   7.5   ECAOJHG223   2200   10   20   760   0.24   1000   0.6   3.5   5.0   ECA1AHG331()   2200   10   20   760   0.26   2000   0.6   5.0   5.0   ECA1AHG322()   2200   10   20   760   0.26   2000   0.6   5.0   5.0   ECA1AHG322()   2200   10   20   760   0.26   2000   0.6   5.0   5.0   ECA1AHG322()   2200   16   31.5   1890   0.42   2000   0.8   7.5   ECA1AHG332()   2200   16   31.5   1890   0.42   2000   0.8   7.5   ECA1AHG332()   2200   16   31.5   1890   0.42   2000   0.8   7.5   ECA1AHG103   2200   3300   33.5   2180   0.52   2000   0.8   7.5   ECA1AHG133   2200   3300   33.5   2180   0.52   2000   0.8   7.5   ECA1AHG133   2200   23	200	2000	
6.3    3300   10   20   840   0.32   2000   0.6   5.0   5.0   ECA0JHG332()   4700   12.5   20   1090   0.34   2000   0.6   5.0   5.0   ECA0JHG472()   6800   12.5   25   1350   0.38   2000   0.6   5.0   5.0   ECA0JHG682()   10000   16   25   1650   0.46   2000   0.8   7.5   7.5   ECA0JHG133()   15000   16   31.5   2010   0.56   2000   0.8   7.5   T.5   ECA0JHG133   22000   18   35.5   2350   0.70   2000   0.8   7.5   T.5   ECA0JHG133   22000   18   35.5   2350   0.70   2000   0.8   7.5   T.5   ECA0JHG223   330   6.3   11.2   200   0.24   1000   0.5   2.5   5.0   2.5   ECA1AHG331()   470   8   11.5   250   0.24   1000   0.6   3.5   5.0   ECA1AHG331()   1000   10   12.5   460   0.24   2000   0.6   5.0   5.0   ECA1AHG322()   2200   10   20   760   0.26   2000   0.6   5.0   5.0   ECA1AHG322()   2200   10   20   760   0.26   2000   0.6   5.0   5.0   ECA1AHG322()   2200   10   20   760   0.26   2000   0.6   5.0   5.0   ECA1AHG322()   4700   12.5   25   1260   0.30   2000   0.6   5.0   5.0   ECA1AHG322()   2200   10   20   760   0.28   2000   0.6   5.0   5.0   ECA1AHG322()   2200   10   20   760   0.28   2000   0.6   5.0   5.0   ECA1AHG322()   2200   16   31.5   1890   0.42   2000   0.8   7.5   T.5   ECA1AHG322()   2200   16   31.5   1890   0.42   2000   0.8   7.5   T.5   ECA1AHG682()   2000   18   35.5   2180   0.52   2000   0.8   7.5   ECA1AHG153   2000   20	200	1000	
100	200	500	
## 100	200	500	
10000   16   25   1650   0.46   2000   0.8   7.5   7.5   ECA0JHG103()     15000   16   31.5   2010   0.56   2000   0.8   7.5   ECA0JHG103()     22000   18   35.5   2350   0.70   2000   0.8   7.5   ECA0JHG223     330   6.3   11.2   200   0.24   1000   0.5   2.5   5.0   2.5   ECA1AHG331()     470   8   11.5   250   0.24   1000   0.6   3.5   5.0   ECA1AHG31()     1000   10   12.5   460   0.24   2000   0.6   5.0   5.0   ECA1AHG32()     2200   10   20   760   0.26   2000   0.6   5.0   5.0   ECA1AHG322()     2200   10   20   760   0.26   2000   0.6   5.0   5.0   ECA1AHG322()     4700   12.5   25   1260   0.30   2000   0.6   5.0   5.0   ECA1AHG322()     6800   16   25   1570   0.34   2000   0.8   7.5   F.5   ECA1AHG382()     15000   16   31.5   1890   0.42   2000   0.8   7.5   ECA1AHG163     15000   18   35.5   2180   0.52   2000   0.8   7.5   ECA1AHG163     15000   18   35.5   2180   0.52   2000   0.8   7.5   ECA1AHG163     15000   18   35.5   2180   0.52   2000   0.8   7.5   ECA1CHG101()     220   6.3   11.2   180   0.20   1000   0.5   2.5   5.0   2.5   ECA1CHG31()     470   8   11.5   260   0.20   1000   0.6   3.5   5.0   ECA1CHG321()     330   8   11.5   260   0.20   1000   0.6   3.5   5.0   ECA1CHG321()     470   8   11.5   310   0.20   1000   0.6   5.0   5.0   ECA1CHG322()     2200   12.5   20   920   0.22   2000   0.6   5.0   5.0   ECA1CHG322()     2200   12.5   25   1170   0.24   2000   0.6   5.0   5.0   ECA1CHG322()     470   16   25   1480   0.26   2000   0.8   7.5   ECA1CHG322()     470   16   25   1480   0.26   2000   0.8   7.5   ECA1CHG322()     470   10   12.5   380   0.16   1000   0.5   2.5   5.0   2.5   ECA1CHG321()     1000   10   20   680   0.16   1000   0.6   3.5   5.0   ECA1CHG321()     330   8   11.5   310   0.16   1000   0.6   3.5   5.0   ECA1CHG321()     470   10   12.5   380   0.16   2000   0.6   5.0   5.0   5.0   ECA1CHG321()     330   16   25   1400   0.20   2000   0.8   7.5   ECA1EHG321()     470   10   12.5   380   0.16   2000   0.6   5.0   5.0   ECA1EHG321()     330   16   25   1400   0.	200	500	
15000   16   31.5   2010   0.56   2000   0.8   7.5     ECA0JHG153	200	500	
22000   18   35.5   2350   0.70   2000   0.8   7.5	100	250	
10   330   6.3   11.2   200   0.24   1000   0.5   2.5   5.0   2.5   ECA1AHG331()	100		
100	50		
1000   10	200	2000	
10	200	1000	
10   3300   12.5   20   1000   0.28   2000   0.6   5.0   5.0   ECA1AHG332()   4700   12.5   25   1260   0.30   2000   0.6   5.0   5.0   ECA1AHG472()   6800   16   25   1570   0.34   2000   0.8   7.5   7.5   ECA1AHG682()   10000   16   31.5   1890   0.42   2000   0.8   7.5   ECA1AHG103   15000   18   35.5   2180   0.52   2000   0.8   7.5   ECA1AHG153   ECA1AHG153   15000   18   35.5   2180   0.52   2000   0.8   7.5   ECA1CHG101()   220   6.3   11.2   180   0.20   1000   0.5   2.0   5.0   2.5   ECA1CHG221()   330   8   11.5   260   0.20   1000   0.6   3.5   5.0   ECA1CHG331()   470   8   11.5   310   0.20   1000   0.6   3.5   5.0   ECA1CHG331()   2200   12.5   20   920   0.22   2000   0.6   5.0   5.0   ECA1CHG22()   3300   12.5   20   920   0.22   2000   0.6   5.0   5.0   ECA1CHG22()   3300   12.5   25   1170   0.24   2000   0.6   5.0   5.0   ECA1CHG332()   4700   16   25   1480   0.26   2000   0.8   7.5   ECA1CHG332()   4700   16   25   1480   0.26   2000   0.8   7.5   ECA1CHG332()   6800   16   31.5   1780   0.30   2000   0.8   7.5   ECA1CHG472()   6800   18   35.5   2060   0.38   2000   0.8   7.5   ECA1CHG472()   100   6.3   11.2   130   0.16   1000   0.5   2.5   5.0   2.5   ECA1EHG31()   220   8   11.5   330   0.16   1000   0.6   3.5   5.0   ECA1EHG331()   220   8   11.5   230   0.16   1000   0.6   3.5   5.0   ECA1EHG331()   220   8   11.5   230   0.16   1000   0.6   3.5   5.0   ECA1EHG331()   220   8   11.5   330   0.16   2000   0.6   5.0   5.0   ECA1EHG331()   220   220   2.5   25   1090   0.18   2000   0.6   5.0   5.0   ECA1EHG331()   2200   12.5   25   1090   0.18   2000   0.6   5.0   5.0   ECA1EHG331()   2200   12.5   25   1090   0.18   2000   0.6   5.0   5.0   ECA1EHG331()   2200   12.5   25   1090   0.18   2000   0.6   5.0   5.0   ECA1EHG332()   2400   2600   28   7.5   ECA1EHG322()   2200   2.5   25   25   2000   20	200	500	
4700	200	500	
6800   16   25   1570   0.34   2000   0.8   7.5   7.5   ECA1AHG682()   10000   16   31.5   1890   0.42   2000   0.8   7.5   ECA1AHG103   15000   18   35.5   2180   0.52   2000   0.8   7.5   ECA1AHG153   ECA1AHG153   100   5   11   110   0.20   1000   0.5   2.0   5.0   2.5   ECA1CHG101()   220   6.3   11.2   180   0.20   1000   0.5   2.5   5.0   2.5   ECA1CHG221()   330   8   11.5   260   0.20   1000   0.6   3.5   5.0   ECA1CHG331()   470   8   11.5   310   0.20   1000   0.6   3.5   5.0   ECA1CHG471()   2200   12.5   20   920   0.22   2000   0.6   5.0   5.0   ECA1CHG472()   2200   12.5   25   1170   0.24   2000   0.6   5.0   5.0   ECA1CHG332()   4700   16   25   1480   0.26   2000   0.8   7.5   ECA1CHG472()   6800   16   31.5   1780   0.30   2000   0.8   7.5   ECA1CHG682   10000   18   35.5   2060   0.38   2000   0.8   7.5   ECA1CHG682   10000   18   35.5   2060   0.38   2000   0.8   7.5   ECA1CHG470()   220   8   11.5   230   0.16   1000   0.5   2.5   5.0   2.5   ECA1EHG331()   220   8   11.5   230   0.16   1000   0.6   3.5   5.0   ECA1EHG331()   220   8   11.5   230   0.16   1000   0.6   3.5   5.0   ECA1EHG331()   220   8   11.5   230   0.16   1000   0.6   3.5   5.0   ECA1EHG331()   2200   12.5   25   1090   0.18   2000   0.6   5.0   5.0   ECA1EHG322()   2300   12.5   25   1090   0.18   2000   0.6   5.0   5.0   ECA1EHG331()   2200   12.5   25   1090   0.18   2000   0.6   5.0   5.0   ECA1EHG322()   2300   12.5   25   1090   0.18   2000   0.6   5.0   5.0   ECA1EHG322()   2470   16   31.5   1750   0.22   2000   0.8   7.5   ECA1EHG332()   2200   12.5   25   1090   0.18   2000   0.8   7.5   ECA1EHG332()   2200   12.5   25   1090   0.18   2000   0.8   7.5   ECA1EHG472()   2200   12.5   25   1090   0.18   2000   0.6   5.0   5.0   ECA1EHG322()   2300   12.5   25   1090   0.18   2000   0.8   7.5   ECA1EHG332()   2200   12.5   25   1090   0.18   2000   0.8   7.5   ECA1EHG332()   2200   12.5   25   1090   0.18   2000   0.8   7.5   ECA1EHG332()   2200   22000   22000   22000   22000   22000   22000   22000   22000   220	200	500	
10000   16   31.5   1890   0.42   2000   0.8   7.5	200	500	
15000	100	250	
100 5 11 110 0.20 1000 0.5 2.0 5.0 2.5 ECA1CHG101() 220 6.3 11.2 180 0.20 1000 0.5 2.5 5.0 2.5 ECA1CHG221() 330 8 11.5 260 0.20 1000 0.6 3.5 5.0 ECA1CHG331() 470 8 11.5 310 0.20 1000 0.6 3.5 5.0 ECA1CHG331() 1000 10 16 560 0.20 2000 0.6 5.0 5.0 ECA1CHG102() 2200 12.5 20 920 0.22 2000 0.6 5.0 5.0 ECA1CHG322() 3300 12.5 25 1170 0.24 2000 0.6 5.0 5.0 ECA1CHG332() 4700 16 25 1480 0.26 2000 0.8 7.5 7.5 ECA1CHG682 10000 18 35.5 2060 0.38 2000 0.8 7.5 ECA1CHG102 1000 18 35.5 2060 0.38 2000 0.8 7.5 ECA1CHG102 100 6.3 11.2 130 0.16 1000 0.5 2.0 5.0 2.5 ECA1EHG470() 220 8 11.5 230 0.16 1000 0.6 3.5 5.0 ECA1EHG331() 220 8 11.5 230 0.16 1000 0.6 3.5 5.0 ECA1EHG331() 220 8 11.5 230 0.16 1000 0.6 3.5 5.0 ECA1EHG331() 220 8 11.5 230 0.16 1000 0.6 3.5 5.0 ECA1EHG331() 220 8 12.5 25 1090 0.18 2000 0.6 5.0 5.0 ECA1EHG471() 220 8 11.5 230 0.16 2000 0.6 5.0 5.0 ECA1EHG331() 220 8 11.5 310 0.16 2000 0.6 5.0 5.0 ECA1EHG331() 220 8 11.5 310 0.16 1000 0.6 3.5 5.0 ECA1EHG471() 220 8 11.5 200 0.16 2000 0.6 5.0 5.0 ECA1EHG331() 220 8 11.5 310 0.16 1000 0.6 3.5 5.0 ECA1EHG331() 220 8 11.5 310 0.16 1000 0.6 5.0 5.0 ECA1EHG331() 220 8 11.5 310 0.16 1000 0.6 5.0 5.0 ECA1EHG331() 220 8 11.5 310 0.16 1000 0.6 5.0 5.0 ECA1EHG331() 220 8 11.5 310 0.16 1000 0.6 5.0 5.0 ECA1EHG331() 220 8 11.5 380 0.16 2000 0.6 5.0 5.0 ECA1EHG331() 220 8 11.5 380 0.16 2000 0.6 5.0 5.0 ECA1EHG331() 220 8 20 0.12 5 25 1000 0.18 2000 0.6 5.0 5.0 ECA1EHG322() 230 12.5 25 1000 0.18 2000 0.6 5.0 5.0 ECA1EHG322() 247 5 11 90 0.14 1000 0.5 2.0 5.0 2.5 ECA1EHG322() 250 18 35.5 2040 0.26 2000 0.8 7.5 ECA1EHG682 247 5 11 90 0.14 1000 0.5 2.5 5.0 2.5 ECA1VHG470()	100		
16   220   6.3   11.2   180   0.20   1000   0.5   2.5   5.0   2.5   ECA1CHG221()     330   8   11.5   260   0.20   1000   0.6   3.5   5.0   ECA1CHG331()     470   8   11.5   310   0.20   1000   0.6   3.5   5.0   ECA1CHG471()     1000   10   16   560   0.20   2000   0.6   5.0   5.0   ECA1CHG471()     2200   12.5   20   920   0.22   2000   0.6   5.0   5.0   ECA1CHG102()     3300   12.5   25   1170   0.24   2000   0.6   5.0   5.0   ECA1CHG332()     4700   16   25   1480   0.26   2000   0.8   7.5   7.5   ECA1CHG472()     6800   16   31.5   1780   0.30   2000   0.8   7.5   ECA1CHG472()     6800   18   35.5   2060   0.38   2000   0.8   7.5   ECA1CHG472()     1000   18   35.5   2060   0.38   2000   0.8   7.5   ECA1CHG470()     100   6.3   11.2   130   0.16   1000   0.5   2.0   5.0   2.5   ECA1EHG470()     220   8   11.5   230   0.16   1000   0.6   3.5   5.0   ECA1EHG331()     220   8   11.5   310   0.16   1000   0.6   3.5   5.0   ECA1EHG331()     220   8   11.5   310   0.16   1000   0.6   3.5   5.0   ECA1EHG331()     220   12.5   25   1090   0.18   2000   0.6   5.0   5.0   ECA1EHG471()     1000   10   20   680   0.16   2000   0.6   5.0   5.0   ECA1EHG332()     2200   12.5   25   1090   0.18   2000   0.8   7.5   T.5   ECA1EHG332()     4700   16   31.5   1750   0.22   2000   0.8   7.5   T.5   ECA1EHG332()     4700   16   31.5   1750   0.22   2000   0.8   7.5   T.5   ECA1EHG332()     4700   16   31.5   1750   0.22   2000   0.8   7.5   T.5   ECA1EHG332()     4701   10   12.5   300   0.14   1000   0.5   2.5   5.0   2.5   ECA1VHG470()	50		
16    330   8	200	2000	
16	200	2000	
16	200	1000	
16	200	1000	
2200 12.5 20 920 0.22 2000 0.6 5.0 5.0 ECA1CHG222()  3300 12.5 25 1170 0.24 2000 0.6 5.0 5.0 ECA1CHG332()  4700 16 25 1480 0.26 2000 0.8 7.5 7.5 ECA1CHG472()  6800 16 31.5 1780 0.30 2000 0.8 7.5 ECA1CHG682  10000 18 35.5 2060 0.38 2000 0.8 7.5 ECA1CHG103  47 5 11 91 0.16 1000 0.5 2.0 5.0 2.5 ECA1EHG470()  100 6.3 11.2 130 0.16 1000 0.5 2.5 5.0 2.5 ECA1EHG470()  220 8 11.5 230 0.16 1000 0.6 3.5 5.0 ECA1EHG221()  330 8 11.5 310 0.16 1000 0.6 3.5 5.0 ECA1EHG331()  470 10 12.5 380 0.16 2000 0.6 5.0 5.0 ECA1EHG471()  1000 10 20 680 0.16 2000 0.6 5.0 5.0 ECA1EHG471()  2200 12.5 25 1090 0.18 2000 0.6 5.0 5.0 ECA1EHG322()  3300 16 25 1400 0.20 2000 0.8 7.5 ECA1EHG322()  470 16 31.5 1750 0.22 2000 0.8 7.5 ECA1EHG472  6800 18 35.5 2040 0.26 2000 0.8 7.5 ECA1EHG472  6800 18 35.5 2040 0.26 2000 0.8 7.5 ECA1EHG682  47 5 11 90 0.14 1000 0.5 2.5 5.0 2.5 ECA1VHG470()  100 6.3 11.2 150 0.14 1000 0.5 2.5 5.0 2.5 ECA1VHG470()	200	500	
4700 16 25 1480 0.26 2000 0.8 7.5 7.5 ECA1CHG472() 6800 16 31.5 1780 0.30 2000 0.8 7.5 ECA1CHG682 10000 18 35.5 2060 0.38 2000 0.8 7.5 ECA1CHG103 47 5 11 91 0.16 1000 0.5 2.0 5.0 2.5 ECA1EHG470() 220 8 11.5 230 0.16 1000 0.6 3.5 5.0 ECA1EHG221() 330 8 11.5 310 0.16 1000 0.6 3.5 5.0 ECA1EHG331() 470 10 12.5 380 0.16 2000 0.6 5.0 5.0 ECA1EHG471() 1000 10 20 680 0.16 2000 0.6 5.0 5.0 ECA1EHG471() 2200 12.5 25 1090 0.18 2000 0.6 5.0 5.0 ECA1EHG22() 3300 16 25 1400 0.20 2000 0.8 7.5 7.5 ECA1EHG332() 4700 16 31.5 1750 0.22 2000 0.8 7.5 T.5 ECA1EHG472 6800 18 35.5 2040 0.26 2000 0.8 7.5 ECA1EHG472 6800 18 35.5 2040 0.26 2000 0.8 7.5 ECA1EHG682 47 5 11 90 0.14 1000 0.5 2.5 5.0 2.5 ECA1VHG470() 1000 6.3 11.2 150 0.14 1000 0.5 2.5 5.0 2.5 ECA1VHG470()	200	500	
6800         16         31.5         1780         0.30         2000         0.8         7.5         ECA1CHG682           10000         18         35.5         2060         0.38         2000         0.8         7.5         ECA1CHG103           47         5         11         91         0.16         1000         0.5         2.0         5.0         2.5         ECA1EHG470()           100         6.3         11.2         130         0.16         1000         0.5         2.5         5.0         2.5         ECA1EHG470()           220         8         11.5         230         0.16         1000         0.6         3.5         5.0         ECA1EHG221()           330         8         11.5         310         0.16         1000         0.6         3.5         5.0         ECA1EHG331()           470         10         12.5         380         0.16         2000         0.6         5.0         5.0         ECA1EHG471()           1000         10         20         680         0.18         2000         0.6         5.0         5.0         ECA1EHG222()           3300         16         25         1400         0.20         200	200	500	
10000 18 35.5 2060 0.38 2000 0.8 7.5 ECA1CHG103  47 5 11 91 0.16 1000 0.5 2.0 5.0 2.5 ECA1EHG470()  100 6.3 11.2 130 0.16 1000 0.5 2.5 5.0 2.5 ECA1EHG101()  220 8 11.5 230 0.16 1000 0.6 3.5 5.0 ECA1EHG221()  330 8 11.5 310 0.16 1000 0.6 3.5 5.0 ECA1EHG331()  470 10 12.5 380 0.16 2000 0.6 5.0 5.0 ECA1EHG471()  1000 10 20 680 0.16 2000 0.6 5.0 5.0 ECA1EHG102()  2200 12.5 25 1090 0.18 2000 0.6 5.0 5.0 ECA1EHG222()  3300 16 25 1400 0.20 2000 0.8 7.5 7.5 ECA1EHG332()  470 16 31.5 1750 0.22 2000 0.8 7.5 ECA1EHG472  6800 18 35.5 2040 0.26 2000 0.8 7.5 ECA1EHG472  6800 18 35.5 2040 0.26 2000 0.8 7.5 ECA1EHG470()  100 6.3 11.2 150 0.14 1000 0.5 2.5 5.0 2.5 ECA1VHG470()	100	250	
25	100		
25	50		
25 8 11.5 230 0.16 1000 0.6 3.5 5.0 ECA1EHG221() 330 8 11.5 310 0.16 1000 0.6 3.5 5.0 ECA1EHG331() 470 10 12.5 380 0.16 2000 0.6 5.0 5.0 ECA1EHG471() 1000 10 20 680 0.16 2000 0.6 5.0 5.0 ECA1EHG102() 2200 12.5 25 1090 0.18 2000 0.6 5.0 5.0 ECA1EHG222() 3300 16 25 1400 0.20 2000 0.8 7.5 7.5 ECA1EHG332() 4700 16 31.5 1750 0.22 2000 0.8 7.5 ECA1EHG472 6800 18 35.5 2040 0.26 2000 0.8 7.5 ECA1EHG682 47 5 11 90 0.14 1000 0.5 2.0 5.0 2.5 ECA1VHG470() 100 6.3 11.2 150 0.14 1000 0.5 2.5 5.0 2.5 ECA1VHG101()	200	2000	
25  330 8 11.5 310 0.16 1000 0.6 3.5 5.0 ECA1EHG331()  470 10 12.5 380 0.16 2000 0.6 5.0 5.0 ECA1EHG471()  1000 10 20 680 0.16 2000 0.6 5.0 5.0 ECA1EHG102()  2200 12.5 25 1090 0.18 2000 0.6 5.0 5.0 ECA1EHG222()  3300 16 25 1400 0.20 2000 0.8 7.5 7.5 ECA1EHG332()  4700 16 31.5 1750 0.22 2000 0.8 7.5 ECA1EHG472  6800 18 35.5 2040 0.26 2000 0.8 7.5 ECA1EHG682  47 5 11 90 0.14 1000 0.5 2.0 5.0 2.5 ECA1VHG470()  100 6.3 11.2 150 0.14 1000 0.5 2.5 5.0 2.5 ECA1VHG101()	200	2000	
25	200	1000	
1000   10   20   680   0.16   2000   0.6   5.0   5.0   ECA1EHG102()	200	1000	
1000   10   20   680   0.16   2000   0.6   5.0   5.0   ECA1EHG102()	200	500	
3300   16   25   1400   0.20   2000   0.8   7.5   7.5   ECA1EHG332()   4700   16   31.5   1750   0.22   2000   0.8   7.5   ECA1EHG472   6800   18   35.5   2040   0.26   2000   0.8   7.5   ECA1EHG682   47   5   11   90   0.14   1000   0.5   2.0   5.0   2.5   ECA1VHG470()   100   6.3   11.2   150   0.14   1000   0.5   2.5   5.0   2.5   ECA1VHG101()	200	500	
4700     16     31.5     1750     0.22     2000     0.8     7.5     ECA1EHG472       6800     18     35.5     2040     0.26     2000     0.8     7.5     ECA1EHG682       47     5     11     90     0.14     1000     0.5     2.0     5.0     2.5     ECA1VHG470()       100     6.3     11.2     150     0.14     1000     0.5     2.5     5.0     2.5     ECA1VHG101()	200	500	
6800         18         35.5         2040         0.26         2000         0.8         7.5         ECA1EHG682           47         5         11         90         0.14         1000         0.5         2.0         5.0         2.5         ECA1VHG470()           100         6.3         11.2         150         0.14         1000         0.5         2.5         5.0         2.5         ECA1VHG101()	100	250	
47 5 11 90 0.14 1000 0.5 2.0 5.0 2.5 ECA1VHG470() 100 6.3 11.2 150 0.14 1000 0.5 2.5 5.0 2.5 ECA1VHG101()	100		
100 6.3 11.2 150 0.14 1000 0.5 2.5 5.0 2.5 <b>ECA1VHG101()</b>	50		
	200	2000	
200 0 11 E 270 014 1000 0 6 2 E E 0 FCA1/HC221()	200	2000	
	200	1000	
330 10 12.5 350 0.14 2000 0.6 5.0 5.0 <b>ECA1VHG331()</b>	200	500	
35 470 10 16 460 0.14 2000 0.6 5.0 5.0 ECA1VHG471()	200	500	
1000 12.5 20 810 0.14 2000 0.6 5.0 5.0 <b>ECA1VHG102()</b>	200	500	
2200 16 25 1260 0.16 2000 0.8 7.5 7.5 <b>ECA1VHG222()</b>	100	250	
3300 16 31.5 1610 0.18 2000 0.8 7.5 <b>ECA1VHG332</b>	100		
4700 18 35.5 1910 0.20 2000 0.8 7.5 <b>ECA1VHG472</b>	50		

<sup>·</sup> When requesting taped product, please put the letter "B" or "i" between the "( )". Lead wire pitch B=5 mm, 7.5 mm, i=2.5 mm. · Please refer to the page of "Taping Dimensions".

W.V.   Case Size   Specification   Lead Length   Lead Space   Specification   Right   Right	_ 0.0	Iluaru I										Lut. D. L. L. Oli		
No.   Color   Color			Case size		Specification								Min. Packaging Q'ty	
(V)   (μF)   (mm)   (mm)   (mm)   (max ms, s)   (hours)   (mm)   (mm)   (mm)   (mm)   (mm)   (mm)   (pcs)	W.V.	Cap. (±20 %)	Dia.		Current (120 Hz)	(120 Hz)				Taping	Taping	Part No.		Taping
0.22   5	(V)	(µF)	(mm)		ľ	(.20 0)	(hours)	(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
0.33   5		0.1	5	11	1.1	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHG0R1()	200	2000
0.47   5		0.22	5	11	2.3	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHGR22()	200	2000
1   5   11   10   0.12   1000   0.5   2.0   5.0   2.5   ECA1HHG010()   200   2000		0.33	5	11	3.5	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHGR33()	200	2000
2.2   5		0.47	5	11	5	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHGR47()	200	2000
3.3   5		1	5	11	10	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHG010()	200	2000
4.7   5		2.2	5	11	18	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHG2R2()	200	2000
10   5   11   39   0.12   1000   0.5   2.0   5.0   2.5   ECA1HHG100()   200   2000		3.3	5	11	22	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHG3R3()	200	2000
Second   S		4.7	5	11	26	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHG4R7()	200	2000
33   5   11   90   0.12   1000   0.5   2.0   5.0   2.5   ECA1HHG330()   200   2000		10	5	11	39	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHG100()	200	2000
47   6.3   11.2   110   0.12   1000   0.5   2.5   5.0   2.5   ECA1HHG470()   200   2000	50	22	5	11	65	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHG220()	200	2000
100   8		33	5	11	90	0.12	1000	0.5	2.0	5.0	2.5	ECA1HHG330()	200	2000
220   10   12.5   300   0.12   2000   0.6   5.0   5.0   ECA1HHG221()   200   500		47	6.3	11.2	110	0.12	1000	0.5	2.5	5.0	2.5	ECA1HHG470()	200	2000
330   10   16   410   0.12   2000   0.6   5.0   5.0   ECA1HHG331()   200   500     470   10   20   530   0.12   2000   0.6   5.0   5.0   ECA1HHG471()   200   500     1000   12.5   25   950   0.12   2000   0.6   5.0   5.0   ECA1HHG102()   200   500     2200   16   31.5   1470   0.14   2000   0.8   7.5   ECA1HHG332   50     3300   18   35.5   1770   0.16   2000   0.8   7.5   ECA1HHG332   50     10   5   11   46   0.10   1000   0.5   2.0   5.0   2.5   ECA1HHG332   50     22   5   11   71   0.10   1000   0.5   2.0   5.0   2.5   ECA1HHG332   50     33   6.3   11.2   100   0.10   1000   0.5   2.5   5.0   2.5   ECA1HHG332   50     47   6.3   11.2   120   0.10   1000   0.5   2.5   5.0   2.5   ECA1HHG330()   200   2000     47   6.3   11.2   120   0.10   1000   0.5   2.5   5.0   2.5   ECA1HHG330()   200   2000     47   6.3   11.2   120   0.10   1000   0.5   2.5   5.0   2.5   ECA1HHG470()   200   2000     47   6.3   11.2   120   0.10   2000   0.6   5.0   5.0   ECA1HHG470()   200   500     220   10   16   335   0.10   2000   0.6   5.0   5.0   ECA1HHG331()   200   500     330   10   20   510   0.10   2000   0.6   5.0   5.0   ECA1HHG331()   200   500     470   12.5   20   640   0.10   2000   0.6   5.0   5.0   ECA1HHG331()   200   500     470   12.5   20   640   0.10   2000   0.6   5.0   5.0   ECA1HHG331()   200   500     1000   16   25   930   0.10   2000   0.8   7.5   7.5   ECA1HHG331()   200   500     2200   18   35.5   1610   0.12   2000   0.8   7.5   7.5   ECA1HHG331()   200   2000     1   5   11   14   0.08   1000   0.5   2.0   5.0   2.5   ECA2HHG37()   200   2000     10   3.3   5   11   31   0.08   1000   0.5   2.0   5.0   2.5   ECA2HHG373()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2HHG37()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2HHG37()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2HHG37()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2HHG37()   200   2000     10		100	8	11.5	180	0.12	1000	0.6	3.5	5.0		ECA1HHG101()	200	1000
470         10         20         530         0.12         2000         0.6         5.0         5.0         ECA1HHG471()         200         500           1000         12.5         25         950         0.12         2000         0.6         5.0         5.0         ECA1HHG102()         200         500           2200         16         31.5         1470         0.14         2000         0.8         7.5         ECA1HHG222         100           3300         18         35.5         1770         0.16         2000         0.8         7.5         ECA1HHG332         50           22         5         11         46         0.10         1000         0.5         2.0         5.0         2.5         ECA1JHG100()         200         200           33         6.3         11.2         100         0.10         1000         0.5         2.5         5.0         2.5         ECA1JHG220()         200         200           47         6.3         11.2         120         0.10         1000         0.5         2.5         5.0         2.5         ECA1JHG330()         200         200           470         12.5         215         0.10		220	10	12.5	300	0.12	2000	0.6	5.0	5.0		ECA1HHG221()	200	500
1000   12.5   25   950   0.12   2000   0.6   5.0   5.0   ECA1HHG102()   200   500		330	10	16	410	0.12	2000	0.6	5.0	5.0		ECA1HHG331()	200	500
2200   16   31.5   1470   0.14   2000   0.8   7.5		470	10	20	530	0.12	2000	0.6	5.0	5.0		ECA1HHG471()	200	500
3300   18   35.5   1770   0.16   2000   0.8   7.5		1000	12.5	25	950	0.12	2000	0.6	5.0	5.0		ECA1HHG102()	200	500
10   5   11   46   0.10   1000   0.5   2.0   5.0   2.5   ECA1JHG100()   200   2000		2200	16	31.5	1470	0.14	2000	0.8	7.5			ECA1HHG222	100	
63         11         71         0.10         1000         0.5         2.0         5.0         2.5         ECA1JHG220()         200         2000           47         6.3         11.2         120         0.10         1000         0.5         2.5         5.0         2.5         ECA1JHG330()         200         2000           47         6.3         11.2         120         0.10         1000         0.5         2.5         5.0         2.5         ECA1JHG470()         200         2000           100         10         12.5         215         0.10         2000         0.6         5.0         5.0         ECA1JHG470()         200         500           220         10         16         335         0.10         2000         0.6         5.0         5.0         ECA1JHG221()         200         500           330         10         20         510         0.10         2000         0.6         5.0         5.0         ECA1JHG221()         200         500           470         12.5         20         640         0.10         2000         0.6         5.0         5.0         ECA1JHG471()         200         500           1000		3300	18	35.5	1770	0.16	2000	8.0	7.5			ECA1HHG332	50	
63         6.3         11.2         100         0.10         1000         0.5         2.5         5.0         2.5         ECA1JHG330()         200         2000           47         6.3         11.2         120         0.10         1000         0.5         2.5         5.0         2.5         ECA1JHG470()         200         2000           100         10         12.5         215         0.10         2000         0.6         5.0         5.0         ECA1JHG470()         200         500           220         10         16         335         0.10         2000         0.6         5.0         5.0         ECA1JHG221()         200         500           330         10         20         510         0.10         2000         0.6         5.0         5.0         ECA1JHG331()         200         500           470         12.5         20         640         0.10         2000         0.6         5.0         5.0         ECA1JHG331()         200         500           1000         16         25         930         0.10         2000         0.8         7.5         7.5         ECA1JHG471()         200         200         200         200		10	5	11	46	0.10	1000	0.5	2.0	5.0	2.5	ECA1JHG100()	200	2000
63         11.2         120         0.10         1000         0.5         2.5         5.0         2.5         ECA1JHG470()         200         2000           100         10         12.5         215         0.10         2000         0.6         5.0         5.0         ECA1JHG101()         200         500           220         10         16         335         0.10         2000         0.6         5.0         5.0         ECA1JHG221()         200         500           330         10         20         510         0.10         2000         0.6         5.0         5.0         ECA1JHG331()         200         500           470         12.5         20         640         0.10         2000         0.6         5.0         5.0         ECA1JHG331()         200         500           1000         16         25         930         0.10         2000         0.8         7.5         7.5         ECA1JHG471()         200         500           2200         18         35.5         1610         0.12         2000         0.8         7.5         7.5         ECA1JHG471()         200         200           1         5         11		22	5	11	71	0.10	1000	0.5	2.0	5.0	2.5	ECA1JHG220()	200	2000
100   10   12.5   215   0.10   2000   0.6   5.0   5.0   ECA1JHG101()   200   500		33	6.3	11.2	100	0.10	1000	0.5	2.5	5.0	2.5	ECA1JHG330()	200	2000
63         220         10         16         335         0.10         2000         0.6         5.0         5.0         ECA1JHG221()         200         500           330         10         20         510         0.10         2000         0.6         5.0         5.0         ECA1JHG331()         200         500           470         12.5         20         640         0.10         2000         0.6         5.0         5.0         ECA1JHG471()         200         500           1000         16         25         930         0.10         2000         0.8         7.5         7.5         ECA1JHG102()         100         250           2200         18         35.5         1610         0.12         2000         0.8         7.5         ECA1JHG102()         100         250           200         18         35.5         1610         0.12         2000         0.8         7.5         ECA1JHG102()         100         250           200         1         5         11         9         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG87()         200         2000           2.2         5 <t< td=""><td></td><td>47</td><td>6.3</td><td>11.2</td><td>120</td><td>0.10</td><td>1000</td><td>0.5</td><td>2.5</td><td>5.0</td><td>2.5</td><td>ECA1JHG470()</td><td>200</td><td>2000</td></t<>		47	6.3	11.2	120	0.10	1000	0.5	2.5	5.0	2.5	ECA1JHG470()	200	2000
220   10   16   335   0.10   2000   0.6   5.0   5.0   ECA1JHG221()   200   500     330   10   20   510   0.10   2000   0.6   5.0   5.0   ECA1JHG331()   200   500     470   12.5   20   640   0.10   2000   0.6   5.0   5.0   ECA1JHG471()   200   500     1000   16   25   930   0.10   2000   0.8   7.5   7.5   ECA1JHG102()   100   250     2200   18   35.5   1610   0.12   2000   0.8   7.5   ECA1JHG222   50     100   1   5   11   9   0.08   1000   0.5   2.0   5.0   2.5   ECA2AHGR47()   200   2000     1   5   11   14   0.08   1000   0.5   2.0   5.0   2.5   ECA2AHG2R2()   200   2000     2.2   5   11   21   0.08   1000   0.5   2.0   5.0   2.5   ECA2AHG2R2()   200   2000     100   3.3   5   11   31   0.08   1000   0.5   2.0   5.0   2.5   ECA2AHG3R3()   200   2000     4.7   5   11   38   0.08   1000   0.5   2.0   5.0   2.5   ECA2AHG4R7()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   54   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   11.2   6.4   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG100()   200   2000     10   6.3   6.4   6.4   6.4   6.4   6.4   6.4   6.4   6.4   6.4   6.4   6.4   6.4   6.4   6.4   6.	62	100	10	12.5	215	0.10	2000	0.6	5.0	5.0		ECA1JHG101()	200	500
470         12.5         20         640         0.10         2000         0.6         5.0         5.0         ECA1JHG471()         200         500           1000         16         25         930         0.10         2000         0.8         7.5         7.5         ECA1JHG102()         100         250           2200         18         35.5         1610         0.12         2000         0.8         7.5         ECA1JHG222         50           0.47         5         11         9         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHGR47()         200         2000           1         5         11         14         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG910()         200         2000           2.2         5         11         21         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG2R2()         200         2000           100         3.3         5         11         31         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG3R3()         200         2000           4.	03	220	10	16	335	0.10	2000	0.6	5.0	5.0		ECA1JHG221()	200	500
1000         16         25         930         0.10         2000         0.8         7.5         7.5         ECA1JHG102()         100         250           2200         18         35.5         1610         0.12         2000         0.8         7.5         ECA1JHG222         50           0.47         5         11         9         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHGR47()         200         2000           1         5         11         14         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG010()         200         2000           2.2         5         11         21         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG2R2()         200         2000           3.3         5         11         31         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG3R3()         200         2000           4.7         5         11         38         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG4R7()         200         2000           10 <td></td> <td>330</td> <td>10</td> <td>20</td> <td>510</td> <td>0.10</td> <td>2000</td> <td>0.6</td> <td>5.0</td> <td>5.0</td> <td></td> <td>ECA1JHG331()</td> <td>200</td> <td>500</td>		330	10	20	510	0.10	2000	0.6	5.0	5.0		ECA1JHG331()	200	500
2200         18         35.5         1610         0.12         2000         0.8         7.5         ECA1JHG222         50           0.47         5         11         9         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHGR47()         200         2000           1         5         11         14         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG010()         200         2000           2.2         5         11         21         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG2R2()         200         2000           3.3         5         11         31         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG3R3()         200         2000           4.7         5         11         38         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG4R7()         200         2000           10         6.3         11.2         54         0.08         1000         0.5         2.5         5.0         2.5         ECA2AHG100()         200         2000 <td></td> <td>470</td> <td>12.5</td> <td>20</td> <td>640</td> <td>0.10</td> <td>2000</td> <td>0.6</td> <td>5.0</td> <td>5.0</td> <td></td> <td>ECA1JHG471()</td> <td>200</td> <td>500</td>		470	12.5	20	640	0.10	2000	0.6	5.0	5.0		ECA1JHG471()	200	500
0.47         5         11         9         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHGR47()         200         2000           1         5         11         14         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG010()         200         2000           2.2         5         11         21         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG2R2()         200         2000           3.3         5         11         31         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG3R3()         200         2000           4.7         5         11         38         0.08         1000         0.5         2.0         5.0         2.5         ECA2AHG4R7()         200         2000           10         6.3         11.2         54         0.08         1000         0.5         2.5         5.0         2.5         ECA2AHG100()         200         2000		1000	16	25	930	0.10	2000	8.0	7.5	7.5		ECA1JHG102()	100	250
1 5 11 14 0.08 1000 0.5 2.0 5.0 2.5 ECA2AHG010() 200 2000 2.2 5 11 21 0.08 1000 0.5 2.0 5.0 2.5 ECA2AHG2R2() 200 2000 3.3 5 11 31 0.08 1000 0.5 2.0 5.0 2.5 ECA2AHG3R3() 200 2000 4.7 5 11 38 0.08 1000 0.5 2.0 5.0 2.5 ECA2AHG4R7() 200 2000 10 6.3 11.2 54 0.08 1000 0.5 2.5 5.0 2.5 ECA2AHG100() 200 2000		2200	18	35.5	1610	0.12	2000	8.0	7.5			ECA1JHG222	50	
2.2   5   11   21   0.08   1000   0.5   2.0   5.0   2.5   ECA2AHG2R2()   200   2000		0.47	5	11	9	0.08	1000	0.5	2.0	5.0	2.5	ECA2AHGR47()	200	2000
100 3.3 5 11 31 0.08 1000 0.5 2.0 5.0 2.5 ECA2AHG3R3() 200 2000 4.7 5 11 38 0.08 1000 0.5 2.0 5.0 2.5 ECA2AHG4R7() 200 2000 10 6.3 11.2 54 0.08 1000 0.5 2.5 5.0 2.5 ECA2AHG100() 200 2000		1	5	11	14	0.08	1000	0.5	2.0	5.0	2.5	ECA2AHG010()	200	2000
4.7     5     11     38     0.08     1000     0.5     2.0     5.0     2.5     ECA2AHG4R7()     200     2000       10     6.3     11.2     54     0.08     1000     0.5     2.5     5.0     2.5     ECA2AHG100()     200     2000		2.2	5	11	21	0.08	1000	0.5	2.0	5.0	2.5	ECA2AHG2R2()	200	2000
10 6.3 11.2 54 0.08 1000 0.5 2.5 5.0 2.5 <b>ECA2AHG100()</b> 200 2000	100	3.3	5	11	31	0.08	1000	0.5	2.0	5.0	2.5	ECA2AHG3R3()	200	2000
		4.7	5	11	38	0.08	1000	0.5	2.0	5.0	2.5	ECA2AHG4R7()	200	2000
22   6.3   11.2   93   0.08   1000   0.5   2.5   5.0   2.5   ECA2AHG220()   200   2000		10	6.3	11.2	54	0.08	1000	0.5	2.5	5.0	2.5	ECA2AHG100()	200	2000
		22	6.3	11.2	93	0.08	1000	0.5	2.5	5.0	2.5	ECA2AHG220()	200	2000

 $<sup>\</sup>cdot$  When requesting taped product, please put the letter "B" or "i" between the "()". Lead wire pitch B=5 mm, 7.5 mm, i=2.5 mm.  $\cdot$  Please refer to the page of "Taping Dimensions".

W.V.   Ca2	Staridard r		TOddot	3										
March   Marc			Case	size	Specification				Lead l	_ength			Min. Packaging Q'ty	
	14() (	Cap.				(120 Hz) ance	Endur-		Lead Space					
33	W.V.		Dia.	_	(120 Hz)		Dia.	Straight			Part No.		Taping	
100   101   12.5   16.5   0.08   2000   0.6   5.0   5.0   ECA2HG470()   200   500   500   100   101   20   265   0.08   2000   0.6   5.0   5.0   ECA2HG27()   200   500   500   330   16   25   540   0.08   2000   0.6   5.0   5.0   ECA2HG231()   100   250   250   100   330   16   25   540   0.08   2000   0.8   7.5   7.5   ECA2HG231()   100   250   250   100   18   35.5   985   0.08   2000   0.8   7.5   7.5   ECA2HG27()   100   250   2	(V)	(µF)	(mm)	(mm)	(mA r.m.s.)		(hours)	(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
100		33	8	11.5	130	0.08	1000	0.6	3.5	5.0		ECA2AHG330()	200	1000
100   220   12.5   25   440   0.08   2000   0.6   5.0   5.0		47	10	12.5	165	0.08	2000	0.6	5.0	5.0		ECA2AHG470()	200	500
330		100	10	20	265	0.08	2000	0.6	5.0	5.0		ECA2AHG101()	200	500
470	100		12.5		440	0.08	2000	0.6				ECA2AHG221()	200	
1000   18   35.5   985   0.08   2000   0.8   7.5		330	16			0.08	2000	0.8				ECA2AHG331()	100	250
1   6.3   11.2   17   0.15   2000   0.5   2.5   5.0   2.5   ECA2CHG010()   200   2000						0.08				7.5				250
2.2		1000			985								_	
3.3   6.3   11.2   36   0.15   2000   0.5   2.5   5.0   2.5   ECA2CHG3R3()   200   2000   2000   4.7   6.3   11.2   43   0.15   2000   0.5   2.5   5.0   2.5   ECA2CHG4R7()   200   20												` '		
4.7   6.3   11.2   43   0.15   2000   0.5   2.5   5.0   2.5   ECA2CHG4R7()   200   2000												` '		
10									-			` '		
160											2.5	` '		
33   10   20   180   0.15   2000   0.6   5.0   5.0   ECA2CHG330()   200   500												` '		
47	160													
100												` ' '		
220														
330										7.5		` '		250
1   6.3   11.2   17   0.15   2000   0.5   2.5   5.0   2.5   ECA2DHG010()   200   2000									-					
2.2   6.3   11.2   25   0.15   2000   0.5   2.5   5.0   2.5   ECA2DHG2R2()   200   2000									-	F 0	0.5			2000
3.3   6.3   11.2   36   0.15   2000   0.5   2.5   5.0   2.5   ECA2DHG3R3()   200   2000									-			` ,		
4.7   8												, ,		
10											2.5			
22   10   20   140   0.15   2000   0.6   5.0   5.0   ECA2DHG220()   200   500												` '	_	
33	200											` '		
47														
100														
220   18   31.5   575   0.15   2000   0.8   7.5									-		2.5	. ,		
1   6.3   11.2   17   0.15   2000   0.5   2.5   5.0   2.5   ECA2EHG010()   200   2000										7.0	2.0		_	200
2.2         6.3         11.2         29         0.15         2000         0.5         2.5         5.0         2.5         ECA2EHG2R2()         200         2000           3.3         8         11.5         42         0.15         2000         0.6         3.5         5.0         ECA2EHG3R3         200         1000           4.7         8         11.5         50         0.15         2000         0.6         5.0         5.0         ECA2EHG4R7()         200         1000           22         12.5         20         155         0.15         2000         0.6         5.0         5.0         ECA2EHG4R7()         200         500           33         12.5         20         190         0.15         2000         0.6         5.0         5.0         ECA2EHG220()         200         500           47         12.5         25         230         0.15         2000         0.6         5.0         5.0         ECA2EHG330()         200         500           100         16         31.5         365         0.15         2000         0.8         7.5         ECA2EHG470()         200         500           2.2         8         11.5										5.0	2.5			2000
250         8         11.5         42         0.15         2000         0.6         3.5         5.0         ECA2EHG3R3         200         1000           4.7         8         11.5         50         0.15         2000         0.6         3.5         5.0         ECA2EHG4R7()         200         1000           10         10         16         88         0.15         2000         0.6         5.0         5.0         ECA2EHG100()         200         500           22         12.5         20         155         0.15         2000         0.6         5.0         5.0         ECA2EHG220()         200         500           33         12.5         20         190         0.15         2000         0.6         5.0         5.0         ECA2EHG330()         200         500           47         12.5         25         230         0.15         2000         0.6         5.0         5.0         ECA2EHG330()         200         500           100         16         31.5         365         0.15         2000         0.8         7.5         ECA2EHG470()         200         200           2.2         8         11.5         31 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>. , ,</td><td></td><td></td></th<>												. , ,		
4.7         8         11.5         50         0.15         2000         0.6         3.5         5.0         ECA2EHG4R7()         200         1000           250         10         10         16         88         0.15         2000         0.6         5.0         5.0         ECA2EHG100()         200         500           22         12.5         20         155         0.15         2000         0.6         5.0         5.0         ECA2EHG220()         200         500           33         12.5         20         190         0.15         2000         0.6         5.0         5.0         ECA2EHG330()         200         500           47         12.5         25         230         0.15         2000         0.6         5.0         5.0         ECA2EHG470()         200         500           100         16         31.5         365         0.15         2000         0.8         7.5         ECA2EHG470()         200         500           2.2         8         11.5         31         0.20         2000         0.6         3.5         5.0         ECA2VHG2R2()         200         1000           3.5         10         12.5														
250   10   10   16   88   0.15   2000   0.6   5.0   5.0   ECA2EHG100()   200   500														
22         12.5         20         155         0.15         2000         0.6         5.0         5.0         ECA2EHG220()         200         500           33         12.5         20         190         0.15         2000         0.6         5.0         5.0         ECA2EHG330()         200         500           47         12.5         25         230         0.15         2000         0.6         5.0         5.0         ECA2EHG470()         200         500           100         16         31.5         365         0.15         2000         0.8         7.5         ECA2EHG101         100           2.2         8         11.2         18         0.20         2000         0.5         2.5         5.0         2.5         ECA2VHG010()         200         2000           3.3         10         12.5         38         0.20         2000         0.6         5.0         5.0         ECA2VHG2R2()         200         500           4.7         10         16         50         0.20         2000         0.6         5.0         5.0         ECA2VHG4R7()         200         500           350         10         10         20 <td< td=""><td>250</td><td></td><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><del> </del></td><td></td></td<>	250		10										<del> </del>	
33		22	12.5		155							ECA2EHG220()	200	
100   16   31.5   365   0.15   2000   0.8   7.5		33	12.5	20	190	0.15	2000	0.6	5.0	5.0			200	500
1         6.3         11.2         18         0.20         2000         0.5         2.5         5.0         2.5         ECA2VHG010()         200         2000           2.2         8         11.5         31         0.20         2000         0.6         3.5         5.0         ECA2VHG2R2()         200         1000           3.3         10         12.5         38         0.20         2000         0.6         5.0         5.0         ECA2VHG3R3()         200         500           4.7         10         16         50         0.20         2000         0.6         5.0         5.0         ECA2VHG4R7()         200         500           350         10         10         20         82         0.20         2000         0.6         5.0         5.0         ECA2VHG4R7()         200         500           22         12.5         20         130         0.20         2000         0.6         5.0         5.0         ECA2VHG220()         200         500           33         16         25         195         0.20         2000         0.8         7.5         7.5         ECA2VHG330()         100         250           47         1		47	12.5	25	230	0.15	2000	0.6	5.0	5.0		ECA2EHG470()	200	500
2.2       8       11.5       31       0.20       2000       0.6       3.5       5.0       ECA2VHG2R2()       200       1000         3.3       10       12.5       38       0.20       2000       0.6       5.0       5.0       ECA2VHG3R3()       200       500         4.7       10       16       50       0.20       2000       0.6       5.0       5.0       ECA2VHG4R7()       200       500         350       10       10       20       82       0.20       2000       0.6       5.0       5.0       ECA2VHG4100()       200       500         22       12.5       20       130       0.20       2000       0.6       5.0       5.0       ECA2VHG220()       200       500         33       16       25       195       0.20       2000       0.8       7.5       7.5       ECA2VHG330()       100       250         47       16       25       230       0.20       2000       0.8       7.5       7.5       ECA2VHG470()       100       250		100	16	31.5	365	0.15	2000	0.8	7.5				100	
3.3 10 12.5 38 0.20 2000 0.6 5.0 5.0 ECA2VHG3R3() 200 500 4.7 10 16 50 0.20 2000 0.6 5.0 5.0 ECA2VHG4R7() 200 500 10 10 20 82 0.20 2000 0.6 5.0 5.0 ECA2VHG100() 200 500 22 12.5 20 130 0.20 2000 0.6 5.0 5.0 ECA2VHG220() 200 500 33 16 25 195 0.20 2000 0.8 7.5 7.5 ECA2VHG330() 100 250 47 16 25 230 0.20 2000 0.8 7.5 7.5 ECA2VHG470() 100 250		1	6.3	11.2	18	0.20	2000	0.5	2.5	5.0	2.5	ECA2VHG010()	200	2000
4.7         10         16         50         0.20         2000         0.6         5.0         5.0         ECA2VHG4R7()         200         500           350         10         10         20         82         0.20         2000         0.6         5.0         5.0         ECA2VHG100()         200         500           22         12.5         20         130         0.20         2000         0.6         5.0         5.0         ECA2VHG220()         200         500           33         16         25         195         0.20         2000         0.8         7.5         7.5         ECA2VHG330()         100         250           47         16         25         230         0.20         2000         0.8         7.5         7.5         ECA2VHG470()         100         250		2.2	8	11.5	31	0.20	2000	0.6	3.5	5.0		ECA2VHG2R2()	200	1000
350     10     10     20     82     0.20     2000     0.6     5.0     5.0     ECA2VHG100()     200     500       22     12.5     20     130     0.20     2000     0.6     5.0     5.0     ECA2VHG220()     200     500       33     16     25     195     0.20     2000     0.8     7.5     7.5     ECA2VHG330()     100     250       47     16     25     230     0.20     2000     0.8     7.5     7.5     ECA2VHG470()     100     250		3.3	10	12.5	38	0.20	2000	0.6	5.0	5.0		ECA2VHG3R3()	200	500
22     12.5     20     130     0.20     2000     0.6     5.0     5.0     ECA2VHG220()     200     500       33     16     25     195     0.20     2000     0.8     7.5     7.5     ECA2VHG330()     100     250       47     16     25     230     0.20     2000     0.8     7.5     7.5     ECA2VHG470()     100     250		4.7	10	16	50	0.20	2000	0.6	5.0	5.0		ECA2VHG4R7()	200	500
33     16     25     195     0.20     2000     0.8     7.5     7.5     ECA2VHG330()     100     250       47     16     25     230     0.20     2000     0.8     7.5     7.5     ECA2VHG470()     100     250	350	10	10	20	82	0.20	2000	0.6	5.0	5.0		ECA2VHG100()	200	500
47 16 25 230 0.20 2000 0.8 7.5 7.5 <b>ECA2VHG470()</b> 100 250		22	12.5	20	130	0.20	2000	0.6	5.0	5.0		ECA2VHG220()	200	500
					195	0.20	2000	0.8	7.5			ECA2VHG330()	100	250
100   18   31.5   375   0.20   2000   0.8   7.5				25		0.20	2000	0.8		7.5		` '	_	250
		100	18	31.5	375	0.20	2000	0.8	7.5			ECA2VHG101	50	

 $<sup>\</sup>cdot$  When requesting taped product, please put the letter "B" or "i" between the "( )". Lead wire pitch B=5 mm, 7.5 mm, i=2.5 mm.  $\cdot$  Please refer to the page of "Taping Dimensions".

		Case size		Specification			Lead Length					Min. Packaging Q'ty	
W.V.	Cap. (±20 %)	Dia.	Length	[(12U HZ)	tan $\delta$ (120 Hz)	Endur- ance	Lead Dia.	Le Straight	ad Spa Taping		Part No.	Straight Leads	Taping
() ()	(	(100.100)	(100.100)		(+20 °C)	(	(100.100)					(12.22)	(12.2.2)
(V)	(µF)	(mm)	, ,	(mA r.m.s.)		(hours)	(mm)	(mm)	(mm)	(mm)		(pcs)	(pcs)
	1	6.3	11.2	18	0.24	2000	0.5	2.5	5.0	2.5	ECA2GHG010()	200	2000
	2.2	8	11.5	30	0.24	2000	0.6	3.5	5.0		ECA2GHG2R2()	200	1000
	3.3	10	12.5	40	0.24	2000	0.6	5.0	5.0		ECA2GHG3R3()	200	500
400	4.7	10	16	50	0.24	2000	0.6	5.0	5.0		ECA2GHG4R7()	200	500
400	10	10	20	80	0.24	2000	0.6	5.0	5.0		ECA2GHG100()	200	500
	22	12.5	25	145	0.24	2000	0.6	5.0	5.0		ECA2GHG220()	200	500
	33	16	25	195	0.24	2000	0.8	7.5	7.5		ECA2GHG330()	100	250
	47	16	31.5	250	0.24	2000	8.0	7.5			ECA2GHG470	100	
	1	8	11.5	18	0.24	2000	0.6	3.5	5.0		ECA2WHG010()	200	1000
	2.2	10	12.5	29	0.24	2000	0.6	5.0	5.0		ECA2WHG2R2()	200	500
	3.3	10	16	41	0.24	2000	0.6	5.0	5.0		ECA2WHG3R3()	200	500
450	4.7	10	20	49	0.24	2000	0.6	5.0	5.0		ECA2WHG4R7()	200	500
	10	12.5	20	75	0.24	2000	0.6	5.0	5.0		ECA2WHG100()	200	500
	22	16	25	115	0.24	2000	0.8	7.5	7.5		ECA2WHG220()	100	250
	33	16	31.5	155	0.24	2000	8.0	7.5			ECA2WHG330	100	

<sup>·</sup> When requesting taped product, please put the letter "B" or "i" between the "( )". Lead wire pitch B=5 mm, 7.5 mm, i=2.5 mm. · Please refer to the page of "Taping Dimensions".