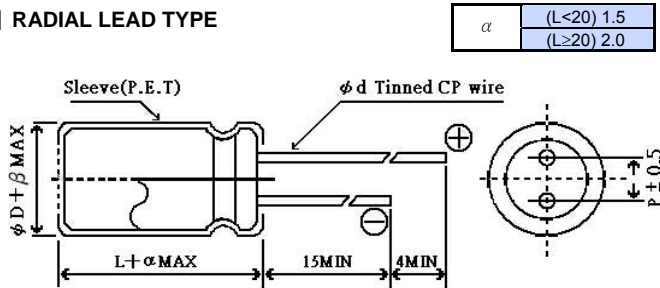


#### SPECIFICATIONS

Item	Performance Characteristics				
Operating Temperature Range	-40~+105°C				
Voltage Range	200V~450V				
Capacitance Range	1~470 μF				
Capacitance Tolerance	±20% at 120Hz, 20°C				
Leakage Current	After 1 minute's application of rated voltage, leakage current is 0.04CV+100 μA or less.				
Tan δ	Measured at 120Hz, 20°C				
	Rated voltage (V)	200~250	400~450		
	Tan δ (MAX.)	0.15	0.15		
Stability at Low Temperature	Rated Voltage(V)	200~250	400~450		
	Impedance Ratio (MAX.)	Z-25°C/Z+20°C	3	8	
		Z-40°C/Z+20°C	6	10	
Load Life	After an application of D.C. bias voltage plus the rated ripple current for 3000 hours at 105°C the peak voltage shall not exceed the rated D.C. voltage, the capacitors meet the characteristics requirements shown on the right			Capacitance Change	Within ±20% MAX. of initial value
				Tan δ	Not exceeding 200% of initial specified value
				Leakage Current	Not exceeding Initial specified value
Shelf Life	After storing capacitors under no load at 105°C for 1000 hours. they will meet the specified value for enduring characteristics listed above.				

#### RADIAL LEAD TYPE



	10	12.5	16	18
φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6	*0.6	0.8	0.8
β	0.5	0.5	0.5	0.5

#### Frequency Coefficient of Allowable Ripple Current

Frequency	50, 60Hz	120Hz	300Hz	1kHz	10KHz
Coefficient	0.80	1.00	1.25	1.40	1.60

#### DIMENSIONS

		D×L (mm)											
Cap(μF)	W.V. S.V.	200V(2D)		250V(2E)		400V(2G)		420V(W6)		450V(2W)			
		250	300	450	470	500							
1	1R0									8×15	22		
2.2	2R2					8×11.5	34			10×12.5	26		
3.3	3R3									10×12.5	38		
4.7	4R7			8×15	51			10×16	60	10×16	64		
				10×12.5	53								
				10×16	60								
6.8	6R8			8×15	62			10×16	70	10×20	76		
				10×16	71								
				10×16	85			10×20	120	10×20	90		
15	150									10×31.5	158		
18	180									12.5×25	190		
22	220	10×20	170			12.5×25	195	12.5×25	200	12.5×31.5	230		
						12.5×31.5	220						
27	270									12.5×31.5	260		
				10×25	230	12.5×20	255	12.5×25	220	16×25	270	16×31.5	330
		12.5×20	230										
47	470	10×31.5	275	10×31.5	295	12.5×31.5	350	10×40	350	16×31.5	380	16×31.5	395
						16×25	360						
						16×35.5	380						
						18×25	380						
56	560	12.5×25	295	12.5×25	330	16×31.5	450					16×35.5	460
						16×35.5	470						
						18×31.5	460						
						16×31.5	495						
68	680	12.5×25	360	12.5×31.5	360	16×35.5	510	18×31.5	500			16×25	315
						18×25	470						
						18×35.5	520						
						18×31.5	540						
82	820	12.5×31.5	410	12.5×31.5	440	18×25	525					18×35.5	570
		16×20	410			18×31.5	550						
						18×40	570						
						16×31.5	590						
100	101	16×25	470	16×25	505	18×31.5	600	18×31.5	630			18×35.5	620
						18×35.5	620						
						18×40	630						
						18×35.5	690						
120	121	16×31.5	550	16×31.5	585	18×40	720	18×35.5	700				
						18×40	720						
150	151	16×31.5	610	16×31.5	680	18×35.5	840	18×40	860				
		18×25	610										
180	181	16×35.5	695	16×35.5	790	18×40	920						
		18×31.5	695	18×31.5	790								
220	221	18×35.5	795	18×35.5	910								
270	271			18×40	1045								
330	331	18×35.5	1040										
390	391	18×40	1100										
470	471	18×40	1210									Case size	Allowable Ripple