

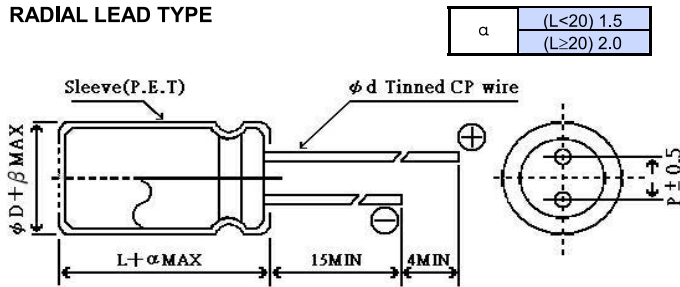
AR(AQ) series

• Wide Temperature Range, miniature Type

SPECIFICATIONS

Item	Performance Characteristics				
Operating Temperature Range	-40~+105°C				
Voltage Range	200V~450V				
Capacitance Range	1~560 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 2000 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 endurance characteristics listed above.				

RADIAL LEAD TYPE



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	21	
2.2	2R2					8×11.5	31			10×12.5	24	
3.3	3R3									10×12.5	36	
4.7	4R7					8×11.5	41	10×16	55	10×16	61	
						8×15	46					
						10×12.5	48					
6.8	6R8					8×15	55	10×16	65	10×20	72	
						10×16	65					
						10×16	78					
10	100	8×11.5	78			12.5×20	100	10×20	110	10×20	86	
15	150					10×16	78					
						10×20	94			10×30.5	150	
						12.5×15	110					
18	180									12.5×25	180	
22	220	10×16	115			12.5×20	180	12.5×25	190	12.5×31.5	220	
		10×20	155			12.5×25	180					
						12.5×30.5	200					
27	270									12.5×30.5	250	
33	330	10×25	210	12.5×20	230	12.5×20	180	16×25	250	16×30.5	315	
		12.5×20	210			12.5×25	200					
						16×25	220					
47	470	10×30.5	250	10×30.5	270	12.5×30.5	320	16×30.5	350	16×30.5	380	
		12.5×20	250			16×25	330					
						18×20	345					
56	560	12.5×25	270	12.5×25	300	12×30.5	380				16×35.5	440
						16×25	390					
						16×30.5	410					
						16×35.5	430					
						16×25	430					
68	680	12.5×25	325	12.5×30.5	330	16×25	430	18×30.5	460	18×30.5	480	
						16×30.5	450					
						16×35.5	465					
						18×25	430					
						16×25	440					
82	820	12.5×30.5	370	12.5×30.5	400	16×30.5	495				18×35.5	550
		16×20	370			18×25	480					
						16×30.5	540					
100	101	16×25	430	16×25	460	18×25	500	16×30.5	570	18×40	650	
						18×30.5	545	18×30.5	580			
						18×30.5	600	18×35.5	600			
						18×35.5	630	18×35.5	650			
120	121	16×30.5	500	16×30.5	530	18×30.5	600	18×30.5	600	18×40	690	
150	151	16×30.5	560	16×30.5	620	18×35.5	765	18×40	800	18×45	835	
		18×25	560			18×25	430					
		16×25	530			16×35.5	720					
180	181	16×35.5	630	16×35.5	720	18×40	825	18×45	840	18×45	860	
		18×30.5	630	18×30.5	720							
		18×30.5	725	18×35.5	830							
220	221	18×30.5	725	18×35.5	830	18×45	850					
270	271			18×40	950							
330	331	18×35.5	950									
390	391	18×40	1000	18×40	1000							
470	471	18×40	1100	18×45	1200							
560	561	18×45	1150							Case size	Allowable Ripple	

Allowable Ripple (mA rms) at 105°C 120Hz