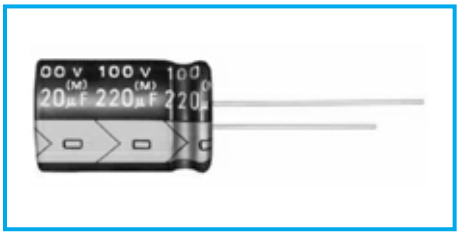
Miniature Capacitors for Audio Series RA2

- **A standard capacitor utilizing a newly developed material for a high grade of audio reproduction.**
- **Copper clad steel wire is used for leads.**



Specifications

Item	Performance
Category temperature range (˚C)	−40 to +85
Tolerance at rated capacitance (%)	±20 (20˚C,120Hz)
Leakage current (μA)	Less than 0.01CV or 4 whichever is larger (after 2 minutes) C: Rated capacitance(μF); V: Rated voltage(V) (20˚C)
Tangent of loss angle (tanδ)	See table below
Endurance (85˚C) (Applied ripple current)	See table below
Shelf life (85˚C)	Test time : 1000 hours. Other have same as endurance. Voltage application treatment
Applicable standards	JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)

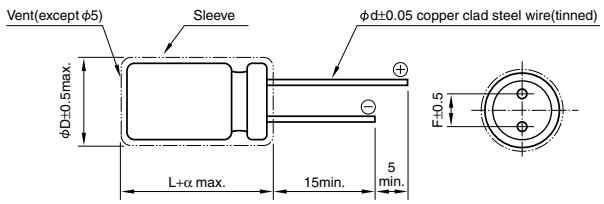
Rated voltage (V)	6.3	10	16	25	35	50	63	100
tanδ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

0.02 is added to every 1000μF increase over 1000μF (20˚C,120Hz)

Test time	1000 hours
Leakage current	The initial specified value or less
Percentage of capacitance change	Within ±20% of initial value
Tangent of the loss angle	150% or less of the initial specified value

Outline Drawing

Unit: mm



ø D	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ø d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α	1.5			1.5 for L16 max. 2.0 for L20 min.			

Coefficient of Frequency for Rated Ripple Current

Rated voltage(V) \ Frequency(Hz) / CV(μFxWV)	50 · 60	120	1k	10k	100k
6.3 to 16	All CV value	0.80	1	1.1	1.2	1.2
25 to 35	≤ 1000	0.80	1	1.5	1.7	1.7
	1000 <	0.80	1	1.2	1.3	1.3
50 to 100	≤ 1000	0.80	1	1.6	1.9	1.9
	1000 <	0.80	1	1.2	1.3	1.3

Part numbering system (example: 25V100μF)

RA2	—	25	V	101	M	☐
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Additional symbol

Standard Ratings

Rated voltage(V) / Item / Rated capacitance(μF)	6.3		10		16		25		35		50		63		100	
	Case ø DxL(mm)	Rated ripple current mArms	Case ø DxL(mm)	Rated ripple current mArms	Case ø DxL(mm)	Rated ripple current mArms	Case ø DxL(mm)	Rated ripple current mArms	Case ø DxL(mm)	Rated ripple current mArms	Case ø DxL(mm)	Rated ripple current mArms	Case ø DxL(mm)	Rated ripple current mArms	Case ø DxL(mm)	Rated ripple current mArms
0.47	—	—	—	—	—	—	—	—	—	—	5x11	10	—	—	5x11	10
1	—	—	—	—	—	—	—	—	—	—	5x11	15	—	—	5x11	15
2.2	—	—	—	—	—	—	—	—	—	—	5x11	20	—	—	5x11	25
3.3	—	—	—	—	—	—	—	—	—	—	5x11	25	—	—	5x11	30
4.7	—	—	—	—	—	—	—	—	5x11	30	5x11	30	5x11	35	5x11	35
10	—	—	—	—	—	—	—	—	5x11	45	5x11	45	5x11	50	6.3x11	60
22	—	—	—	—	5x11	50	5x11	55	5x11	60	5x11	70	6.3x11	85	8x11.5	110
33	—	—	5x11	55	5x11	60	5x11	70	5x11	80	6.3x11	100	6.3x11	100	10x12.5	160
47	—	—	5x11	65	5x11	75	5x11	85	6.3x11	110	6.3x11	120	8x11.5	150	10x16	210
100	5x11	85	5x11	95	6.3x11	120	6.3x11	140	8x11.5	190	8x11.5	210	10x12.5	260	12.5x20	380
220	6.3x11	150	6.3x11	165	8x11.5	220	8x11.5	250	10x12.5	330	10x16	400	10x20	460	16x25	720
330	6.3x11	180	8x11.5	240	8x11.5	270	10x12.5	370	10x16	450	10x20	540	12.5x20	650	16x25	880
470	8x11.5	260	8x11.5	280	10x12.5	390	10x16	480	10x20	590	12.5x20	740	12.5x25	850	16x31.5	1150
1000	10x12.5	450	10x16	540	10x20	680	12.5x20	880	12.5x25	1050	16x25	1350	16x31.5	1550	—	—
2200	12.5x20	890	12.5x20	970	12.5x25	1200	16x25	1550	16x31.5	1750	16x35.5	2100	—	—	—	—
3300	12.5x20	1050	12.5x25	1250	16x25	1600	16x31.5	1950	18x35.5	2250	—	—	—	—	—	—
4700	16x25	1550	16x25	1650	16x31.5	2050	18x35.5	2500	—	—	—	—	—	—	—	—
6800	16x25	1750	16x31.5	2050	18x35.5	2550	—	—	—	—	—	—	—	—	—	—
10000	16x31.5	2150	18x35.5	2550	—	—	—	—	—	—	—	—	—	—	—	—
15000	18x35.5	2700	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 85˚C, 120Hz

NOTE
Design, Specifications are subject to change without notice.
Ask factory for technical specifications before purchase and/or use.