

Miniature Standard Capacitors for Audio

GREEN
CAPFor
audio

TONEREX

- Adopting the newly developed formation method and composite electrolytic paper for audio application has reduced distortion, achieving high-quality sound.
- All lead wires are oxygen-free copper wires to reduce distortion.

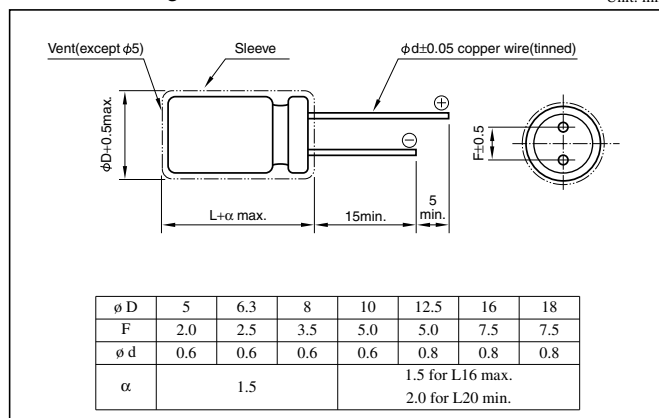


Specifications

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 5 minutes) C: Rated capacitance(μF); V: Rated voltage(V) (20°C)									
Tangent of loss angle (tanδ)	Rated voltage (V)		6.3	10	16	25	35	50	63	100
	tanδ (max.)		0.24	0.20	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)									
Endurance (85°C) (Applied ripple current)	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							
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)									

Outline Drawing

Unit: mm



Coefficient of Frequency for Rated Ripple Current

Rated voltage(V)	Frequency(Hz)	50 - 60	120	1k	10k	100k
	CV(μFxVV)					
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)

ROB	—	25	V	101	M	G3	□	#
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol	Additional symbol	

Case symbol

Case Symbol	Casing Symbol	Case Symbol	Casing Symbol	Case Symbol	Casing Symbol	Case Symbol	Casing Symbol
5x11	E3	10x12.5	H3	12.5x20	I5	16x31.5	J7
6.3x11	F3	10x16	H4	12.5x25	I6	16x35.5	J8
8x11.5	G3	10x20	H5	16x25	J6	18x35.5	K8
						18x40	K9

Standard Ratings

Rated capacitance(μF)	Rated voltage(V)		6.3		10		16		25		35		50		63		100	
	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current	Case	Rated ripple current
0.47	—	—	—	—	—	—	—	—	—	—	—	—	5x11	5	—	—	5x11	10
1	—	—	—	—	—	—	—	—	—	—	—	—	5x11	10	—	—	5x11	15
2.2	—	—	—	—	—	—	—	—	—	—	—	—	5x11	20	—	—	5x11	25
3.3	—	—	—	—	—	—	—	—	—	—	—	—	5x11	25	—	—	5x11	30
4.7	—	—	—	—	—	—	—	—	5x11	25	—	—	5x11	35	5x11	35	6.3x11	40
10	—	—	—	—	—	—	5x11	35	5x11	40	5x11	45	5x11	50	6.3x11	60	8x11.5	70
22	—	—	—	5x11	50	—	5x11	60	5x11	60	6.3x11	75	6.3x11	80	8x11.5	100	10x12.5	120
33	5x11	55	5x11	65	5x11	70	6.3x11	80	6.3x11	90	8x11.5	110	8x11.5	115	10x16	160	—	—
47	5x11	65	5x11	75	6.3x11	95	6.3x11	100	8x11.5	120	8x11.5	130	10x12.5	165	10x20	210	—	—
100	6.3x11	110	6.3x11	120	8x11.5	150	8x11.5	165	10x12.5	210	10x16	250	10x20	285	12.5x20	340	—	—
220	8x11.5	185	8x11.5	200	10x12.5	265	10x16	310	10x20	365	12.5x20	440	12.5x20	470	16x25	620	—	—
330	10x12.5	265	10x12.5	200	10x16	350	10x20	410	12.5x20	500	12.5x20	540	12.5x20	620	16x31.5	820	—	—
470	10x12.5	315	10x16	380	10x20	460	12.5x20	550	12.5x25	640	16x25	800	16x25	840	18x35.5	1000	—	—
1000	10x20	550	12.5x20	670	12.5x25	810	16x25	1000	16x25	1050	16x31.5	1200	18x35.5	1500	—	—	—	—
2200	12.5x25	980	16x25	1200	16x25	1350	16x35.5	1650	18x35.5	1900	—	—	—	—	—	—	—	—
3300	16x25	1300	16x31.5	1600	16x35.5	1800	18x40	2100	—	—	—	—	—	—	—	—	—	—
4700	16x31.5	1700	16x35.5	1900	18x35.5	2400	—	—	—	—	—	—	—	—	—	—	—	—
6800	16x35.5	2100	18x40	2600	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10000	18x40	2800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(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.