



High Grade Standard Type, For Audio Equipment

series



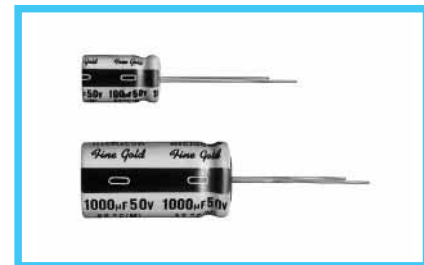
For Audio Use



Anti-Solvent
Feature

- "Fine Gold" MUSE acoustic series suited for high grade audio equipment, using state of the art etching techniques.
- Rich sound in the bass register and clearer high end, most suited for AV equipment like DVD, MD.
- Adapted to the RoHS directive (2002/95/EC).

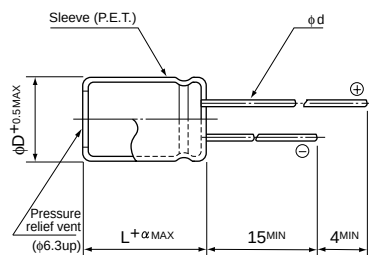
KZ ← High Grade **FG** ← High Grade FW



Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 ~ +85°C										
Rated Voltage Range	6.3 ~ 100V										
Rated Capacitance Range	0.1 ~ 10000μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 1 minute's application of rated voltage, leakage current is not more than 0.01CV or 3 (μA) , whichever is greater.										
tan δ	For capacitance of more than 1000μF add 0.02 for every increase of 1000μF. Measurement frequency : 120Hz, Temperature : 20°C										
	Rated voltage (V)	6.3	10	16	25	35	50	63	80	100	
	tan δ (MAX.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08	
Stability at Low Temperature	Measurement frequency : 120Hz										
	Rated voltage (V)		6.3	10	16	25	35	50	63	80	100
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2	2
		Z-40°C / Z+20°C	8	6	4	4	3	3	3	3	3
Endurance	After 1000 hours' application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.		Capacitance change		Within ±20% of the initial measurement for units of not more than 16V or φ6.3 Within ±15% of the initial measurement for units of not less than 25V or above φ6.3						
			tan δ		150% or less of initial specified value						
			Leakage current		Initial specified value or less						
Shelf Life	After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for endurance characteristics listed above.										
Marking	Printed with black color letter on gold sleeve.										

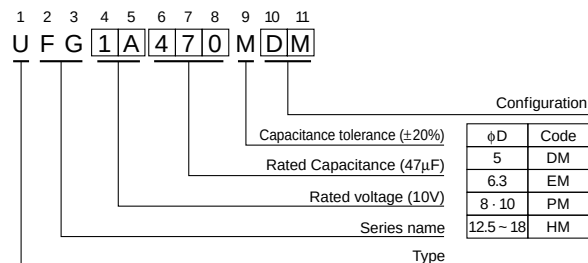
Radial Lead Type



	5	6.3	8	10	12.5	16	18
φD	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.6	0.6	0.8	0.8	0.8

α	(L < 20)	1.5
	(L ≥ 20)	2.0

Type numbering system (Example : 10V 47µF)



Please refer to page 21, 22, 23 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

● Dimension table in next page.

■Dimensions

φD×L (mm)

V		6.3	10	16	25	35	50
Cap.(μF)	Code	0J	1A	1C	1E	1V	1H
0.1	0R1						5×11
0.22	R22						5×11
0.33	R33						5×11
0.47	R47						5×11
1	010						5×11
2.2	2R2						5×11
3.3	3R3						5×11
4.7	4R7						5×11
10	100						5×11
22	220				5×11	50	6.3×11
33	330			5×11	57	6.3×11	75
47	470		5×11	60	6.3×11	70	8×11.5
100	101		6.3×11	99	8×11.5	85	101
220	221		8×11.5	170	10×12.5	140	10×12.5
330	331		10×12.5	247	10×16	176	10×16
470	471	10×12.5	270	330	10×20	406	12.5×20
1000	102	10×20	485	601	12.5×25	723	16×25
2200	222	12.5×25	867	1047	16×25	1290	16×35.5
3300	332	16×25	1135	1520	16×35.5	1720	18×40
4700	472	16×31.5	1431	1840	18×35.5	2140	
6800	682	18×35.5	1810	2049			
10000	103	18×40	2100				

V		63	80	100
Cap.(μF)	Code	1J	1K	2A
0.1	0R1			5×11
0.22	R22			5×11
0.33	R33			5×11
0.47	R47			5×11
1	010			5×11
2.2	2R2			5×11
3.3	3R3			5×11
4.7	4R7			5×11
10	100	6.3×11	50	6.3×11
22	220	8×11.5	85	8×11.5
33	330	8×11.5	105	10×12.5
47	470	10×12.5	140	10×16
100	101	10×20	255	10×20
220	221	12.5×20	420	12.5×20
330	331	12.5×25	541	16×25
470	471	16×25	840	16×31.5
1000	102	18×35.5	1400	16×35.5
				Case size
				Rated ripple

Rated Ripple (mA rms) at 85°C 120Hz

●Frequency coefficient of rated ripple current

Cap.(μF)	50Hz	120Hz	300Hz	1kHz	10kHz ~
~ 47	0.75	1.00	1.35	1.57	2.00
100 ~ 470	0.80	1.00	1.23	1.34	1.50
1000 ~ 10000	0.85	1.00	1.10	1.13	1.15