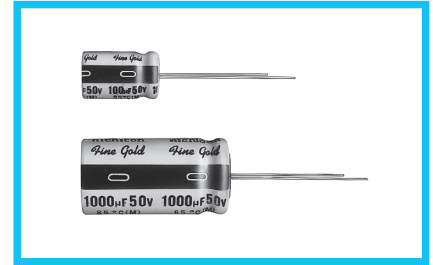


UFG

High Grade Standard Type, For Audio Equipment



- "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.
- Compliant to the RoHS directive (2011/65/EU).

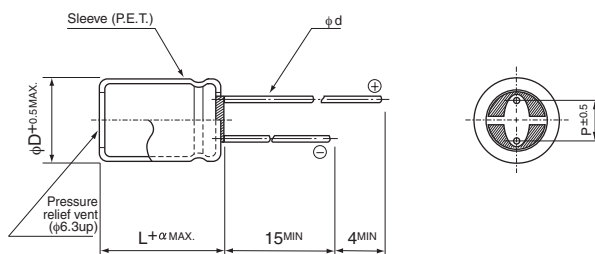


UKZ ← High Grade **UFG** ← High Grade UFW

Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +85°C										
Rated Voltage Range	6.3 to 100V										
Rated Capacitance Range	1 to 10000μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3 (μA) , whichever is greater.										
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 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	
For capacitance of more than 1000μF add 0.02 for every increase of 1000μF.											
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	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 85°C.		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 than the initial specified value						
			Leakage current		Less than or equal to the initial specified value						
Shelf Life	After storing the capacitors under no load at 85°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.										
Marking	Printed with black color letter on gold sleeve.										

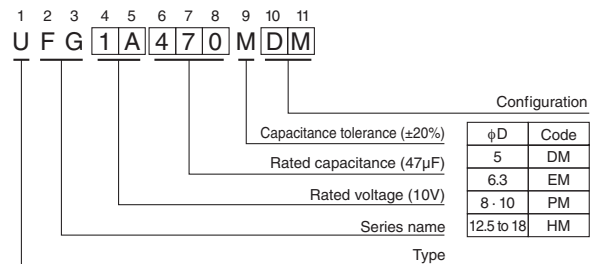
Radial Lead Type



	(mm)						
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 20 about the end seal configuration.

Please refer to page 20, 21, 22 about the formed or taped product spec.
Please refer to page 4 for the minimum order quantity.

• Dimension table in next page.

UFG

■ Dimensions

Cap.(μF)	V Code	6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
1	010											5 × 11	9.0
2.2	2R2											5 × 11	18
3.3	3R3											5 × 11	22
4.7	4R7											5 × 11	27
10	100											5 × 11	39
22	220							5 × 11	50	6.3 × 11	60	6.3 × 11	65
33	330					5 × 11	57	6.3 × 11	70	6.3 × 11	75	8 × 11.5	93
47	470			5 × 11	60	6.3 × 11	74	6.3 × 11	85	8 × 11.5	101	8 × 11.5	111
100	101			6.3 × 11	99	8 × 11.5	128	8 × 11.5	140	10 × 12.5	176	10 × 16	215
220	221			8 × 11.5	170	10 × 12.5	226	10 × 16	260	10 × 20	320	12.5 × 20	390
330	331			10 × 12.5	247	10 × 16	309	10 × 20	351	12.5 × 20	446	12.5 × 20	488
470	471	10 × 12.5	270	10 × 16	330	10 × 20	406	12.5 × 20	476	12.5 × 25	590	16 × 25	650
1000	102	10 × 20	485	12.5 × 20	601	12.5 × 25	723	16 × 25	854	16 × 25	1060	16 × 31.5	1143
2200	222	12.5 × 25	867	16 × 25	1047	16 × 25	1290	16 × 35.5	1570	18 × 35.5	1840		
3300	332	16 × 25	1135	16 × 31.5	1520	16 × 35.5	1720	18 × 40	1794				
4700	472	16 × 31.5	1431	16 × 35.5	1840	18 × 35.5	2140						
6800	682	18 × 35.5	1810	18 × 40	2049								
10000	103	18 × 40	2100										

Cap.(μF)	V Code	63		80		100	
		1J		1K		2A	
1	010					5 × 11	15
2.2	2R2					5 × 11	22
3.3	3R3					5 × 11	27
4.7	4R7					5 × 11	36
10	100	6.3 × 11	50	6.3 × 11	55	8 × 11.5	65
22	220	8 × 11.5	85	8 × 11.5	100	10 × 12.5	110
33	330	8 × 11.5	105	10 × 12.5	130	10 × 16	150
47	470	10 × 12.5	140	10 × 16	170	10 × 20	190
100	101	10 × 20	255	12.5 × 20	270	12.5 × 20	300
220	221	12.5 × 20	420	12.5 × 25	490	16 × 25	549
330	331	12.5 × 25	541	16 × 31.5	650	16 × 31.5	734
470	471	16 × 25	840	16 × 35.5	920	18 × 35.5	980
1000	102	18 × 35.5	1400			Case size φD × L (mm) ¹	Rated ripple

Rated ripple current (mA_{rms}) at 85°C 120Hz

● Frequency coefficient of rated ripple current

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