

Standard, For Audio Equipment



- Realization of a harmonious balance of sound quality, made possible by the development of new electrolyte.
- Most suited for AV equipment.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).





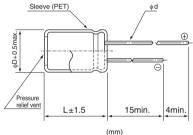


■Specifications

Item	Performance Characteristics												
Category Temperature Range	-40 to +85°C												
Rated Voltage Range	10 to 100V	10 to 100V											
Rated Capacitance Range	33 to 15000μF	33 to 15000μF											
Capacitance Tolerance	±20% at 120Hz, 2	20% at 120Hz, 20°C											
Leakage Current ※		After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03 CV (μA) . After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV (μA) .											
	Rated voltage (V)	6.3	10	16	25	35	50	- 6	3 100	Measurement frequency: 120Hz at 2		120Hz at 20°C	
Tangent of loss angle (tan δ)	tan δ (max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.	.10 0.08				
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.												
	Measurement frequency : 120Hz												
O. 1.77	Rated voltage (V)			6.3	10	1	6	25	35	50	63	100	
Stability at Low Temperature	Impedance ratio	Z(-25°C) /	Z(+20°C)	5	4		3	2	2	2	2	2	
	(max.)	Z(-40°C) /	Z(+20°C)	12	10		8	5	4	3	3	3	
Endurance	The specifications listed at right shall be met when									of the initial capacitance value			
Endurance	the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 85°C.						$ \begin{array}{ccc} \tan\delta & 200\% \text{ or less than the initial specified value} \\ \text{Leakage current} & \text{Less than or equal to the initial specified value} \\ \end{array} $						
Shelf Life		After sroring 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 gold of	color letter	on black	sleeve.									

※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

■ Radial Lead Type





Type r	าน	mb	er	ing	g s	ys	tei	m	(Ех	ar	mple	: 10	V 1	000µF))
1 U	2 K		4 1	5 A	6 1	<u> </u>	_	- '	10 1 P	_					
	$\overline{}$		\neg	$\overline{}$		T	_	Т			•				Configuration
										Ca	pacitan	ce toler	ance		BL (1 1 1 1
								l				(±2	20%)	φD	Pb-free leadwire Pb-free PET sleev
									Rated	d ca	pacitar	nce (100	0μF)	8 -10	PD
						_				F	Rated v	oltage (10V)	12.5 to 18	HD
												Series n			
													Туре		

						(111111)
ı	φD	8	10	12.5	16	18
	Р	3.5	5.0	5.0	7.5	7.5
	φd	0.6	0.6	0.6	0.8	0.8

 Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

• Frequency coefficient of rated ripple current

Cap.(µF)	50Hz	120Hz	300Hz	1kHz	10kHz or more
33 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 15000	0.85	1.00	1.10	1.13	1.15

UKW

■Dimensions

Rated Voltage	Rated Capacitance	Case Size	tan δ	Leakage Current (µA)		Rated Ripple (mArms)	Part Number	
(code)	(µF)	φD×L(mm)	lano	at 20°C after 1 minute	at 20°C after 2 minutes	(85°C/120Hz)	T dit (diniso)	
	1000	10×12.5	0.24	300	100	630	UKW1A102MPD	
	2200	10×20	0.26	660	220	1050	UKW1A222MPD	
	3300	12.5×20	0.28	990	330	1420	UKW1A332MHD	
10 (1A)	4700	12.5×25	0.30	1410	470	1800	UKW1A472MHD	
(,	6800	16×25	0.34	2040	680	2150	UKW1A682MHD	
	10000	16×35.5	0.42	3000	1000	2500	UKW1A103MHD	
	15000	18×35.5	0.52	4500	1500	2720	UKW1A153MHD	
	330	8×11.5	0.20	158.4	52.8	360	UKW1C331MPD	
	470	8×11.5	0.20	225.6	75.2	420	UKW1C471MPD	
	1000	10×16	0.20	480	160	770	UKW1C102MPD	
16	2200	12.5×20	0.22	1056	352	1250	UKW1C222MHD	
(1C)	3300	12.5×25	0.24	1584	528	1700	UKW1C332MHD	
	4700	16×25	0.26	2256	752	2100	UKW1C472MHD	
	6800	16×35.5	0.30	3264	1088	2500	UKW1C682MHD	
	10000	18×35.5	0.38	4800	1600	2640	UKW1C103MHD	
	220	8×11.5	0.16	165	55	320	UKW1E221MPD	
	330	10×12.5	0.16	247.5	82.5	420	UKW1E331MPD	
	470	10×12.5	0.16	352.5	117.5	530	UKW1E471MPD	
25	1000	10×20	0.16	750	250	950	UKW1E102MPD	
(1E)	2200	12.5×25	0.18	1650	550	1550	UKW1E222MHD	
	3300	16×25	0.20	2475	825	1950	UKW1E332MHD	
	4700	16×30.5	0.22	3525	1175	2360	UKW1E472MHD	
	6800	18×35.5	0.26	5100	1700	2590	UKW1E682MHD	
	220	10×12.5	0.14	231	77	370	UKW1V221MPD	
	330	10×12.5	0.14	346.5	115.5	470	UKW1V331MPD	
	470	10×16	0.14	493.5	164.5	630	UKW1V471MPD	
35 (1V)	1000	12.5×20	0.14	1050	350	1100	UKW1V102MHD	
,	2200	16×25	0.16	2310	770	1800	UKW1V222MHD	
	3300	16×35.5	0.18	3465	1155	2220	UKW1V332MHD	
	4700	18×35.5	0.20	4935	1645	2490	UKW1V472MHD	

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit). If there is no size code in the part number, please add size code "1" and then add the appropriate code.



■Dimensions

Rated Voltage	Rated Capacitance (µF)	Case Size	tan δ		Current A)	Rated Ripple (mArms)	Part Number	
(code)		φD×L(mm)	tano	at 20°C after 1 minute	at 20°C after 2 minutes	(85°C/120Hz)		
	100	8×11.5	0.12	150	50	250	UKW1H101MPD	
	220	10×12.5	0.12	330	110	410	UKW1H221MPD	
	330	10×16	0.12	495	165	570	UKW1H331MPD	
50 (1H)	470	12.5×20	0.12	705	235	760	UKW1H471MHD	
(113)	1000	12.5×25	0.12	1500	500	1300	UKW1H102MHD	
	2200	16×35.5	0.14	3300	1100	2090	UKW1H222MHD	
	3300	18×35.5	0.16	4950	1650	2360	UKW1H332MHD	
	100	10×12.5	0.10	189	63	300	UKW1J101MPD	
	220	10×16	0.10	415.8	138.6	470	UKW1J221MPD	
63	330	10×20	0.10	623.7	207.9	650	UKW1J331MPD	
(1J)	470	12.5×20	0.10	888.3	296.1	880	UKW1J471MHD	
	1000	16×25	0.10	1890	630	1300	UKW1J102MHD	
	2200	18×35.5	0.12	4158	1386	2200	UKW1J222MHD	
	33	8×11.5	0.08	99	33	160	UKW2A330MPD	
	47	10×12.5	0.08	141	47	210	UKW2A470MPD	
	100	10×20	0.08	300	100	350	UKW2A101MPD	
100 (2A)	220	12.5×25	0.08	660	220	600	UKW2A221MHD	
\ <u></u> /	330	12.5×25	0.08	990	330	750	UKW2A331MHD	
	470	16×25	0.08	1410	470	1000	UKW2A471MHD	
	1000	18×40	0.08	3000	1000	1370	UKW2A102MHD	

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit). If there is no size code in the part number, please add size code "1" and then add the appropriate code.

[•] For formed lead or taped product specifications and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.