

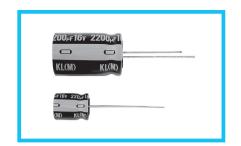
Low Leakage Current



- Standard low leakage current series.
- Compliant to the RoHS directive (2011/65/EU).



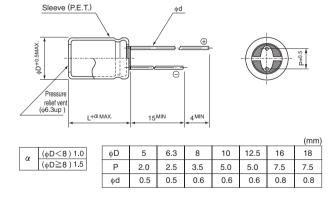




■Specifications

Item	Performance Characteristics											
Category Temperature Range	-40 to +85°C (-40 to +105°C product is also available upon request, but product rated at up to 50V less than or equal to φ10 × 12.5 Lmm)											
Rated Voltage Range	6.3 to 100V	.3 to 100V										
Rated Capacitance Range	1.5 to 10000µF	1.5 to 10000µF										
Capacitance Tolerance	±20% (M), ±10%	±20% (M), ±10% (K) at 120Hz 20°C										
Leakage Current		fter 1 minute's (for case size 10×12.5 or smaller) or 2 minutes' (for case size 10×16 or larger) application of rated voltage at 20 °C, eakage current is not more than 0.002CV or 0.2 (μ A) whichever is greater.										
Tangent of loss angle (tan δ)	Rated ve	oltage (V)	6.3	10	16	25	35	50	63	100	120Hz, 20°C	
	tan δ (MAX.)	Less than $\phi 10 \times 12.5$ $\phi 10 \times 16$ or more	0.18	0.15	0.12	0.08	0.08	0.08	0.07	0.07	_	
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.											
	Rated vo	6.3	10	16	25	35	50	63	100	120Hz		
stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C	3 (4)	2 (3)	2	1.5	1.5	1.5	1.5	1.5	Values in () applicable to	
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	5 (8)	4 (6)	3 (4)	2 (4)	2 (3)	2 (3)	2 (3)	2 (3)	φ10 × 16 or larger case size.	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 85°C, or 1000 hours at 105°C.			tan								
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 white	Printed with white color letter on black sleeve.										

■ Radial Lead Type

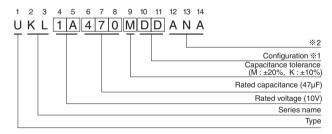


• Please refer to page 20 about the end seal configuration.

• Frequency coefficient of rated ripple current

			•		
Cap.(µF)	50Hz	120Hz	300Hz	1kHz	10kHz or more
1.5 to 68	0.75	1.00	1.35	1.57	2.00
100 to 680	0.80	1.00	1.23	1.34	1.50
1000 to 10000	0.85	1.00	1.10	1.13	1.15

Type numbering system (Example: 10V 47µF)



※1 Configuration

φD	Pb-free leadwire Pb-free PET sleeve
5	DD
6.3	ED
8 · 10	PD
12.5 to 18	HD

※2 In case 105°C unit is required

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.

UKL

■Dimensions

V		6.3		10		16		25	
Cap.(µF)	Code	0J		1A	1A		1C		
4.7	4R7							5 × 11	45
6.8	6R8		İ				 	5 × 11	55
10	100		I I		1	5 × 11	55	5 × 11	70
15	150					5 × 11	70	5 × 11	85
22	220		İ			5 × 11	85	5 × 11	100
33	330		i I		İ	5 × 11	100	6.3 × 11	140
47	470		!	5 × 11	110	6.3 × 11	140	6.3 × 11	170
68	680		İ	6.3 × 11	150	6.3 × 11	160	8 × 11.5	230
100	101		i	6.3 × 11	180	8 × 11.5	230	8 × 11.5	280
150	151		!	8 × 11.5	250	8 × 11.5	280	10 × 12.5	370
220	221			8 × 11.5	310	10 × 12.5	370	10 × 16	400
330	331		i	10 × 12.5	400	10 × 16	420	10 × 20	490
470	471	10 × 12.5	390	10 × 16	530	10 × 20	550	12.5 × 20	660
680	681	10 × 16	480	10 × 20	600	12.5 × 20	730	12.5 × 25	810
1000	102	10 × 20	650	12.5 × 20	810	12.5 × 25	910	16 × 25	1010
1500	152	12.5 × 25	910	12.5 × 25	1020	16 × 25	1150	16 × 31.5	1270
2200	222	12.5 × 25	1060	16 × 25	1200	16 × 25	1300	16 × 35.5	1440
3300	332	16 × 25	1270	16 × 31.5	1420	16 × 35.5	1550	18 × 40	1720
4700	472	16 × 31.5	1500	16 × 35.5	1650	18 × 35.5	1820		-
6800	682	18 × 35.5	1760	18 × 35.5	1890		1		
10000	103	18 × 40	1900				İ		

V		35		50		63		100	
Cap.(µF)	Code	1V		1H		1J		2A	
1.5	1R5			5 × 11	16			5 × 11	23
2.2	2R2			5 × 11	23			5 × 11	28
3.3	3R3			5 × 11	40		 	5 × 11	45
4.7	4R7			5 × 11	45			5 × 11	50
6.8	6R8			5 × 11	55	5 × 11	59	6.3 × 11	65
10	100			5 × 11	70	6.3 × 11	75	8 × 11.5	90
15	150	5 × 11	85	6.3 × 11	95	6.3 × 11	100	8 × 11.5	110
22	220	6.3 × 11	110	6.3 × 11	110	8 × 11.5	115	10 × 12.5	136
33	330	6.3 × 11	140	8 × 11.5	165	8 × 11.5	170	10 × 16	180
47	470	8 × 11.5	190	8 × 11.5	190	10 × 12.5	200	10 × 20	220
68	680	8 × 11.5	230	10 × 12.5	250	10 × 16	270	10 × 20	290
100	101	10 × 12.5	300	10 × 16	320	10 × 20	330	12.5 × 20	370
150	151	10 × 16	400	10 × 20	420	12.5 × 20	450	12.5 × 25	470
220	221	10 × 20	440	12.5 × 20	490	12.5 × 20	550	16 × 25	580
330	331	12.5 × 20	550	12.5 × 20	600	12.5 × 25	710	16 × 31.5	730
470	471	12.5 × 25	680	16 × 25	760	16 × 25	850	18 × 35.5	910
680	681	16 × 25	840	16 × 25	910	16 × 31.5	1050		
1000	102	16 × 25	1100	16 × 31.5	1140	18 × 35.5	1330		
1500	152	16 × 35.5	1390	18 × 40	1480			Case size	Rated
2200	222	18 × 35.5	1580					φD×L (mm)	ripple

Rated ripple current (mArms) at 85°C 120Hz

Rated ripple current (mArms) of 105°C product : 70 percent value of rated ripple of 85°C product at 105°C 120Hz

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

UKL0J332KHD UKL0J332MHD UKL0J102MPD UKL0J103KHD UKL0J103MHD UKL0J102KPD UKL0J471KPD UKL0J471MPD UKL0J472KHD UKL1A101KED1TD UKL1A101KEDANA UKL1A101MEDANA UKL1A221KPDANA UKL1A221MPA1TD UKL1A221MPD UKL1A221MPD1AA UKL1A221MPD1TD UKL1A221MPDANA UKL1A470KDDANATD UKL1A470MDAANA UKL1A470MDDANA UKL1A681MPD UKL1A682KHD UKL1A682MHD UKL1C100KDAANA UKL0J152KHD UKL0J152MHD UKL0J222KHD UKL0J222MHD UKL0J682KHD UKL0J682MHD UKL1A152KHD UKL1A152MHD UKL1A332MHD UKL1A470KDDANA UKL0J472MHD UKL0J681KPD UKL0J681MPD UKL1A151KPDANA UKL1A151MPAANA UKL1A151MPDANA UKL1A331KPDANA UKL1A331MPAANA UKL1A331MPDANA UKL1A332KHD UKL1A680KEDANA UKL1A102KHD UKL1A102MHD UKL1A222KHD UKL1A222MHD UKL1A471KPD UKL1A471MPD UKL1A472KHD UKL1A472MHD UKL1C100KDD1TD UKL1C100KDDANA UKL1C100MDAANA UKL1C100MDAANATD UKL1C100MDD1TA UKL1C102MHD UKL1C150KDDANA UKL1C220KDDANA UKL1C220KDDANATA UKL1C220MDAANA UKL1C330MDDANA UKL1C472MHD UKL1C680KEDANA UKL1A680MEDANA UKL1A681KPD UKL1C101MPAANA UKL1C101MPD UKL1C101MPDANA UKL1C102KHD UKL1C152KHD UKL1C152MHD UKL1C220KDAANA UKL1C330KDAANA UKL1C330KDDANA UKL1C330MDAANA UKL1C100MDDANA UKL1C100MDDANATD UKL1C101KPAANA UKL1C101KPDANA UKL1C151KPDANA UKL1C151MPDANA UKL1C221MPD1TD UKL1C221MPDANA UKL1C222KHD UKL1C222MHD UKL1C222MHD1AA UKL1C470KEDANA UKL1C470MEAANA UKL1C470MEDANA UKL1C150MDAANA UKL1C150MDDANA UKL1C220MDD1TA UKL1C220MDDANA UKL1C221KPDANA UKL1C221MPA1TD UKL1C332KHD