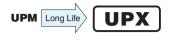


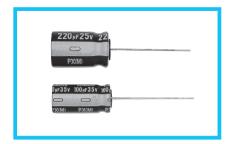
Long Life Assurance



- Load life of 20000 hours at 105°C.
- Compliant to the RoHS directive (2011/65/EU).

Products which are scheduled to be discontinued. Not recommended for new designs

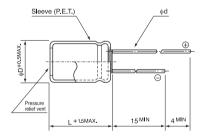




Specifications

Item	Performance Characteristitcs										
Category Temperature Range	−55 to +105°C										
Rated Voltage Range	10 to 35V										
Rated Capacitance Range	1 to 4700μF										
Capacitance Tolerance	±20% (120Hz, 20°C)										
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.										
	Rated voltage (V) 10 16 25 35 Measurement frequency : 120Hz						ency: 120Hz				
Tangent of loss angle (tan δ)	tan δ (MAX) 0.20		0.20	0.16	0.14	0.12	? Tem	Temperature : 20°C			
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.										
	Rated voltage (V)			10	16	25	35	N	Measurement frequency : 120Hz		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C		3	2	2	2				
	(MAX.)	Z-40°C / Z+20°C		4	4	4	4				
	The specifications listed at right shall be met when the Capacitance change Within ±30% of the initial capacitance value										
Endurance	capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 20000 hours at 105°C.							tan δ		300% or less than the initial specified value	
	the peak voltage shall not exceed the rated voltage.						Leakage current		ent	Less than or equal to the initial specified value	
Shelf Life	After storing the capacitors under no load at 105°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 color letter on dark brown sleeve.										

■ Radial Lead Type

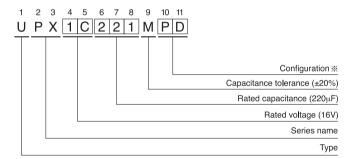




				(mm)
φD	10	12.5	16	18
Р	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.8	0.8

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

Type numbering system (Example : 16V 220μF)



※Configuration					
φD	Pb-free leadwire Pb-free PET sleeve				
10	PD				
12.5 to 18	HD				

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



Dimensions

	V (Code) 10 (1A)		16	(1C)	25	(1E)	35 (1V)		
Cap. (μF)	Item Code	Case size φD × L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size φD × L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size φD × L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size φD × L (mm)	Rated ripple (mArms) 105°C / 100kHz
1	010		- -		-		_	10 × 12.5	59
2.2	2R2		 		 		 	10 × 12.5	84
3.3	3R3		1		1		1	10 × 12.5	101
4.7	4R7		1		1		I I	10 × 12.5	143
10	100		I I		I I		I I	10 × 12.5	294
22	220		1		1		1	10 × 12.5	336
33	330		 		 		 	10 × 12.5	378
47	470		 		 		 	10 × 12.5	420
100	101		1		i !	10 × 12.5	420	10 × 20	672
220	221		1	10 × 16	504	12.5 × 20	840	12.5 × 25	1008
330	331	10 × 16	504	10 × 20	672	12.5 × 25	1008	16 × 25	1344
470	471	10 × 20	672	12.5 × 20	1008	16 × 25	1344	16 × 31.5	1680
1000	102	12.5 × 25	1008	16 × 25	1344	16 × 31.5	1680	18 × 40	2184
2200	222	16 × 31.5	1680	18 × 35.5	2016		 		
3300	332	18 × 35.5	2016	18 × 40	2184		 		
4700	472	18 × 40	2184		1		I I		I I

• Frequency coefficient of rated ripple current

Frequency	120Hz	1kHz	10kHz	100kHz or more
Coefficient	0.75	0.80	0.90	1.00

Mouser Electronics

Authorized Distributor

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UPX1A102MHD UPX1A222MHD UPX1A331MPD UPX1A332MHD UPX1A471MPD UPX1V2R2MPD UPX1V330MPD UPX1V331MHD UPX1V3R3MPD UPX1V470MPD UPX1V471MHD UPX1V4R7MPD UPX1E221MHD UPX1E331MHD UPX1E471MHD UPX1V010MPD UPX1V100MPD UPX1V101MPD UPX1V102MHD UPX1V220MPD UPX1V221MHD UPX1A472MHD UPX1C102MHD UPX1C221MPD UPX1C222MHD UPX1C331MPD UPX1C332MHD UPX1C471MHD UPX1E101MPD UPX1E102MHD UPX1V101MPD1TD UPX1C331MPD1TD UPX1V220MPD1TD UPX1C471MHD1TO UPX1C221MPD1TD UPX1E101MPD1TD UPX1V100MPD1TD UPX1A331MPD1TD UPX1V2R2MPD1TD UPX1V470MPD1TD UPX1C102MHD1TD UPX1A471MPD1TD UPX1A331MPD1TD UPX1V331MHD1TN UPX1E331MHD1TO UPX1E221MHD1TO UPX1A471MPD1TD UPX1V221MHD1TO UPX1V331MHD1TN UPX1E331MHD1TO UPX1V330MPD1TD UPX1V3R3MPD1TD UPX1V3R3MPD1TD UPX1V4R7MPD1TD UPX1V330MPD1TD UPX1V3R3MPD1TD UPX1V3R3MPD1TD UPX1V3R3MPD1TD UPX1V3R3MPD1TD
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