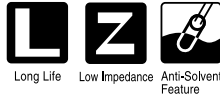
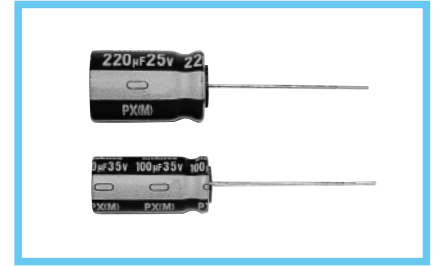
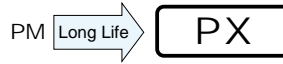


**PX** Long Life Assurance series



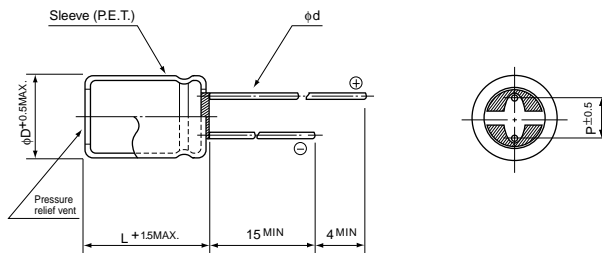
- Load life of 20000 hours at 105°C.
- Adapted to the RoHS directive (2002/95/EC).



## Specifications

Item	Performance Characteristics					
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, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.					
tan δ	Rated voltage (V)	10	16	25	35	Measurement frequency : 120Hz Temperature : 20°C
	tan δ (MAX.)	0.20	0.16	0.14	0.12	
	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.					
Stability at Low Temperature	Rated voltage (V)	10	16	25	35	Measurement frequency : 120Hz
	Impedance ratio (MAX.)	Z-25°C / Z+20°C	3	2	2	
Endurance	After an application of D.C. bias voltage plus the rated ripple current for 20000 hours at 105°C, the peak voltage shall not exceed the rated D.C. voltage, capacitor meet the characteristic requirements listed below.					
	Capacitance change	Within ±30% of initial value				
	tan δ	300% or less of initial specified value				
	Leakage current	Initial specified value or less				
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.					
Marking	Printed with white color letter on dark brown sleeve.					

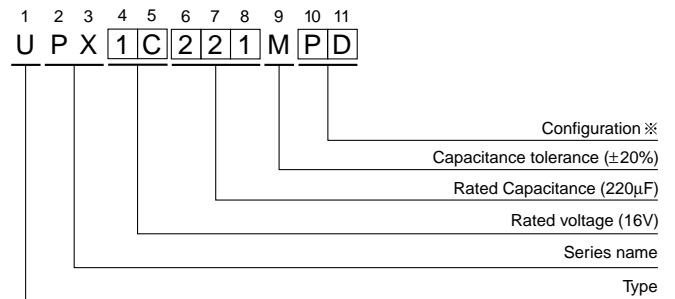
## Radial Lead Type



(mm)

φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.8	0.8

## Type numbering system (Example : 16V 220µF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
10	PD
12.5 to 18	HD

- 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.

## ■ Dimensions

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

### • Frequency coefficient of rated ripple current

Frequency	120Hz	1kHz	10kHz	100kHz or more
Coefficient	0.75	0.8	0.9	1.0