



- Bi-polarized series with 7mm height.
- Extended capacitance range by an addition of φ8 product.
- Adapted to the RoHS directive (2002/95/EC).

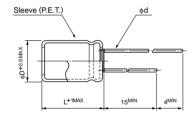




### ■Specifications

Item	Performance Characteristics									
Category Temperature Range	−40 ~ +85°C									
Rated Voltage Range	6.3 ~ 50V									
Rated Capacitance Range	0.1 ~ 220µF									
Capacitance Tolerance	± 20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05CV or 10 (µA), whichever is greater.									
	Measurement frequency : 120Hz, Temperature : 20°C									
tan δ	Rated voltage (V) 6.3	1	0	16	2	5	35	50		
	tan δ (MAX.) 0.24	0.20		0.16	0.1	16 (	).14	0.12		
	Measurement frequency : 120 Hz									
Stability at Law Tamparatura	Rated voltage (V)		6.3	10	16	25	35	50		
Stability at Low Temperature	Impedance ratio Z-25°C / Z+		4	3	2	2	2	2		
	ZT / Z20 (MAX.) Z-40°C / Z+	20°C	8	6	4	4	3	3		
	After 2000 hours' application of rated									
Endurance	voltage at 85°C with the polarity in	_	Capacitance o	hange	Within ±20% of initial value					
	every 250 hours, capacitors mee			nt	200% or less of initial specified value Initial specified value or less					
	characteristic requirements listed at right.  Leakage current Initial specified value or less									
Shelf Life	After storing the capacitors under no load at 85°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 black sleeve.									

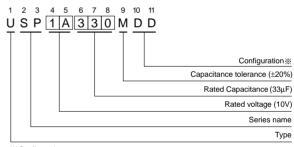
### ■Radial Lead Type





				(mm)
φD	4	5	6.3	8
Р	1.5	2.0	2.5	3.5
φd	0.45	0.45	0.45	0.5

# Type numbering system (Example : 10V 33μF)



※ Configuration					
φD	Pb-free leadwire Pb-free PET sleeve				
4 ~ 8	DD				

#### **■**Dimensions

	V	6.3		10		16		25		35		50	
Cap.(μF)	Code	0J		1A		1C		1E		1V		1H	
0.1	0R1											4×7	1.0
0.22	R22											4×7	2.3
0.33	R33											4×7	3.5
0.47	R47		i									4×7	5.0
1	010										-	4×7	10
2.2	2R2											4×7	14
3.3	3R3						1			4×7	16	5×7	20
4.7	4R7					4×7	18	5×7	21	5×7	22	6.3×7	27
10	100			4×7	24	5×7	30	6.3×7	35	6.3×7	37	8×7	44
22	220			5×7	40	6.3×7	51	6.3×7	53	8×7	62	8×7	65
33	330	5×7	42	6.3×7	56	6.3×7	63	8×7	73	8×7	76		
47	470	6.3×7	58	6.3×7	67	6.3×7	75	8×7	87				
100	101	8×7	95	8×7	110	8×7	125				į	Case size	Rated
220	221	8×7	140									φD×L (mm)	ripple

## • Frequency coefficient of rated ripple current

or requested accommendation in the contraction									
Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz ~				
Coefficient	0.70	1.00	1.17	1.36	1.50				

Rated Ripple (mArms) at 85°C 120Hz

Please refer to page 21, 22, 23 about the formed or taped product spec. Please refer to page 3 for the minimum order quantity.