



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

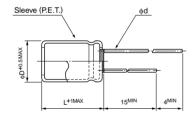




### ■ Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +85°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	0.1 to 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 fre							20Hz at 20°C	;		
Tangent of loss angle (tan δ)	Rated voltage (V) 6.3		10	16	2	-	35	50			
	tan δ (MAX.) 0.24	0.	.20	0.16	0.	0.14		0.12			
	Measurement frequency: 120 Hz										
Stability at Low Temperature	Rated voltage (V)		6.3	10	16	25	35	50	]		
Stability at Low Temperature	Impedance ratio Z-25°C /		4	3	2	2	2	2			
	ZT / Z20 (MAX.) Z-40°C /	Z+20°C	8	6	4	4	3	3			
	The specifications listed at right	shall be m	net _	Capacitance change   Within ±20% of the initial capacitance value					a value		
Endurance	when the capacitors are restore	after –	tan δ	mange	200% or less than the initial specified value						
Endurance	the rated voltage is applied for 2	sat ⊢				Less than or equal to the initial specified value					
	85°C with the polarity inverted every 250 hours.										
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 color letter on black sleeve.										

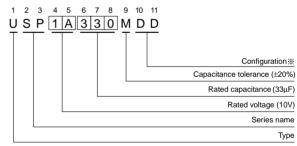
# ■ Radial Lead Type





				(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)



※ Configuratio	n
φD	Pb-free leadwire Pb-free PET sleeve
4 to 9	DD

### **■** Dimensions

V		6.3		10		16		25		35		50	
Cap.(μF)	Code	0J		1A		1C		1E		1V		1H	
0.1	0R1				1							4×7	1.0
0.22	R22		-		i						i	4×7	2.3
0.33	R33											4×7	3.5
0.47	R47		-									4×7	5.0
1	010											4×7	10
2.2	2R2				i							4×7	14
3.3	3R3		!		1					4×7	16	5×7	20
4.7	4R7		i		i	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		T
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				-	Case size	Rated
220	221	8×7	140									φD×L (mm)	ripple

### • Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

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

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