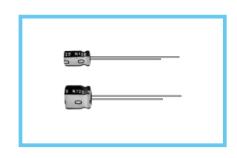
7mmL, Wide Temperature Range



- \bullet Wide temperature range of $-55 \sim +105$ °C, with 7mm height.
- Adapted to the RoHS directive (2002/95/EC).

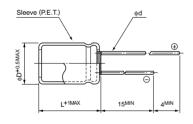




■ Specifications

Item	Performance Characteristics									
Category Temperature Range	-55 ~ +105°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 0.01CV or 3 (µA), whichever is greater.									
	Measurement frequency : 120Hz, Temperature : 20°C									
tan δ	Rated voltage (V) 6.3	10	16	25		35	50			
	tan δ (MAX.) 0.24	0.21	0.18	18 0.15		0.13	0.12			
	Measurement frequency : 120 Hz									
O. 1.77	Rated voltage (V)	6.3	10	16	25 35		50			
Stability at Low Temperature	Impedance ratio Z-25°C / Z+20°C		2	2	2	2	2			
	ZT / Z20 (MAX.) Z-40°C / Z+20°C	6	5	4	3	3	3			
Endurance	After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirement listed at right.		tan	Capacitance change Within ±25% of initial value Within ±20% of initial value tan δ 200% or less of initial spe				e (25Vor more) cified value		
Shelf Life	Leakage current Initial specified value or less 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. Printed with white color letter on black sleeve.									

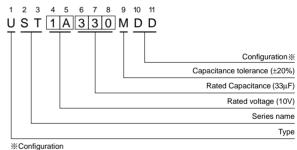
■Radial Lead Type





				(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 $33\mu F$)



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		!		1				I I			4×7	1.0
0.22	R22		i		i		1		i			4×7	2.3
0.33	R33		!		!				!			4×7	3.5
0.47	R47		i						i			4×7	5.0
1	010		!		!				!			4×7	10
2.2	2R2		i		i				i			4×7	19
3.3	3R3		!		1				i !			4×7	24
4.7	4R7		İ		İ				i	4×7	24	5×7	29
10	100					4×7	29	5×7	33	5×7	36	6.3×7	44
22	220	4×7	34	5×7	38	5×7	44	6.3×7	51	6.3×7	57	8×7	65
33	330	5×7	42	5×7	47	6.3×7	57	6.3×7	63	8×7	72		
47	470	5×7	50	6.3×7	59	6.3×7	68	8×7	78				
100	101	6.3×7	77	8×7	96	8×7	107		İ			Case size	Rated
220	221	8×7	130	8×7	140		1		1			φD×L (mm)	ripple

• Frequency coefficient of rated ripple current

' '					
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 105°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.