

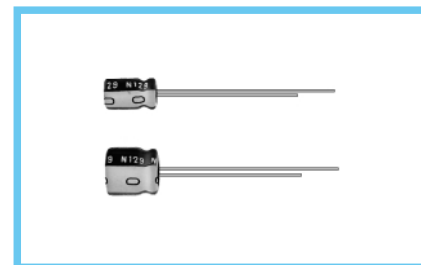
ST 7mmL, Wide Temperature Range
series



Anti-Solvent
Feature

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

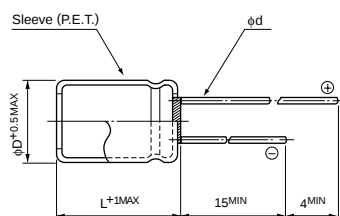
ST



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.							
tan δ	Measurement frequency : 120Hz, Temperature : 20°C							
	Rated voltage (V)	6.3	10	16	25	35	50	
	tan δ (MAX.)	0.24	0.21	0.18	0.15	0.13	0.12	
Stability at Low Temperature	Measurement frequency : 120 Hz							
	Rated voltage (V)		6.3	10	16	25	35	50
	Impedance ratio	Z-25°C / Z+20°C	3	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.				Capacitance change		Within ±25% of initial value (16Vor less) Within ±20% of initial value (25Vor more)	
					tan δ		200% 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 black sleeve.							

Radial Lead Type



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

Type numbering system (Example : 10V 33 μF)

1	2	3	4	5	6	7	8	9	10	11
U	S	T	1	A	3	3	0	M	D	D
			Configuration※		Capacitance tolerance ($\pm 20\%$)		Rated Capacitance (33 μF)		Rated voltage (10V)	
									Series name	
									Type	

※ 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											4 × 7	5.0
1	010											4 × 7	10
2.2	2R2											4 × 7	19
3.3	3R3											4 × 7	24
4.7	4R7									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						
220	221	8 × 7	130	8 × 7	140							Case size $\phi D \times L$ (mm)	Rated ripple

Rated Ripple (mArms) at 105°C 120Hz

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

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