# ALUMINUM ELECTROLYTIC CAPACITORS



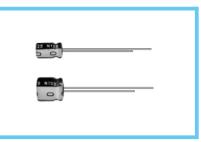
ST 7mmL, Wide Temperature Range series



• Wide temperature range of  $-55 \sim +105^{\circ}$ C, with 7mm height.

Adapted to the RoHS directive (2002/95/EC).

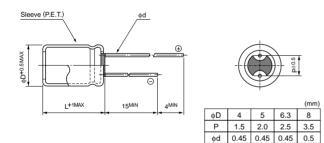




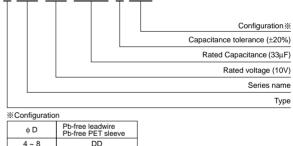
## Specifications

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' ap	plication of rat	ted volta	age, leakao	ge curre	ent is i	not more th	nan 0.	01CV or 3	(µA)	, whichever	r is greater.
	Measurement frequency : 120Hz, Temperature : 20°C											
tan δ	Rated voltage (V)	6.3	1	) 16			25		35		50	
	tan δ (MAX.)	0.24	0.	21	0.18		0.15		0.13		0.12	
	Measurement frequency : 120 Hz											
	Rated voltage (V)		6.3	10		16	25	3	5	50		
Stability at Low Temperature	Impedance ratio	Z–25°C / Z+20°C		3	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)			
Endurance						tan δ			200% or less of initial specified value			
						Leakage current			Initial specified value or less			
Shelf Life	After storing the ca clause 4.1 at 20°C,											based on JIS C 5101-4
Marking	Printed with white color letter on black sleeve.											

# Radial Lead Type







#### Dimensions

	V	6.3		10		16		25 1E		35 1V		<b>50</b> 1H	
Cap.(µF)	Code	0J		1A		1C							
0.1	0R1						1		1		1	4×7	1.0
0.22	R22						i				i	4×7	2.3
0.33	R33						1		1		1	4×7	3.5
0.47	R47						1					4×7	5.0
1	010				1		1		1		1	4×7	10
2.2	2R2						i					4×7	19
3.3	3R3				1		i I		ļ		1	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		1		
100	101	6.3×7	77	8×7	96	8×7	107				1	Case size	Rated
220	221	8×7	130	8×7	140							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.

