## ALUMINUM ELECTROLYTIC CAPACITORS

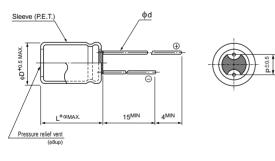


Miniature Sized, High Reliability For Switching Power Supplies series	
<ul> <li>Smaller case size and Long Life product.</li> <li>Compliant to the RoHS directive (2002/95/EC).</li> </ul>	00#16v 100 
Products which are scheduled to be discontinued. Not recommended for new designs PS Long Life TS	

#### Specifications

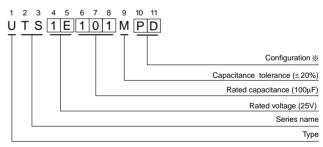
Item	Performance Characteristics									
Category Temperature Range	-40 to +105°C									
Rated Voltage Range	6.3 to 50V	3 to 50V								
Rated Capacitance Range	0.1 to 470µF	.1 to 470µF								
Capacitance Tolerance	±20% at 120Hz, 2	.20% at 120Hz, 20°C								
Leakage Current	After 2 minutes' app	After 2 minutes' application of rated voltage, leakage current is less than 0.03CV or 3 (μA), whichever is greater.								
	Measurement frequency : 120Hz at							y : 120Hz at 20°C		
Tangent of loss angle (tan $\delta$ )	Rated voltage (V)	6.3	10	16	3 25			35	50	
5 5 ( · · · )	tan δ (MAX.)	0.30	0.28	0.24	4	0.18		0.16	0.14	
	Measurement frequency : 120Hz									
	Rated voltage (V)		6.3	10		16	25	35	50	
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C	5	4		3	2	2	2	
	ZT / Z20 (MAX.)	Z-40°C / Z+20°C	10	8		6	4	3	3	
	The specifications I	isted at right shall I	be met when the		Capac	itance change	Within ±309	% of the initial c	apacitance value	
Endurance	capacitors are restored to 20°C after the rated voltage is applied						300% or less than the initial specified value			
	for 5000 hours at 105°C. Leakage current Less than or equal to the initial specified value									
Shelf Life	After storing the capacitors under no load at 105°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 dark blown sleeve.									

### Radial Lead Type



α	(L = 7) 1.0	φD	4	Ę
Ľ	(L≥ 9) 1.5	Р	1.5	2
		φd	0.45	0.
				-

Type numbering system (Example : 25V  $100 \mu F)$ 



※ Configuration

in coningatatio	
φD	Pb-free leadwire Pb-free PET sleeve
4	
5	DD
6.3	
8	PD

• Please refer to page 20 about the end seal configulation.

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



# ALUMINUM ELECTROLYTIC CAPACITORS



## Standard Ratings

$\bigwedge$	V (Code)	V (Code) 6.3 (0J)		10 (1A)		16 (1C)		25 (1E)	
Cap.(µF)	Item Code	Case size ≬D × L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size ≬D × L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size ♦D×L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size ♦D×L (mm)	Rated ripple (mArms) 105°C / 100kHz
10	100					$4 \times 7$	29		
22	220	$4 \times 7$	40			5×7	50		
33	330			$5 \times 7$	60			6.3×7	86
47	470	$5 \times 7$	65			6.3×7	90	6.3×9	112
100	101	6.3×7	100			6.3×9	117	8×9	165
220	221	6.3×9	150	8×9	195				
330	331	8×9	210			8×9	210		
470	471	8×9	210						

$\bigwedge$	V (Code)	35 (	[1V <b>)</b>	50	(1H)
ltem Cap.(μF) Code		Case size ≬D×L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size ♦ D × L (mm)	Rated ripple (mArms) 105°C / 100kHz
0.1	0R1			$4 \times 7$	3.3
0.22	R22			$4 \times 7$	7.3
0.33	R33			4×7	8.8
0.47	R47			4×7	13
1	010			4×7	18
2.2	2R2			4×7	22
3.3	3R3			4×7	25
4.7	4R7	4×7	30	5×7	30
10	100	5×7	43	6.3×7	54
22	220	6.3×7	76	6.3×9	86
33	330	6.3×9	100		
47	470			8×9	153
100	101			8×9	188

## • Frequency coefficient of rated ripple current

Cap. (µF) Frequency	50Hz	120Hz	300Hz	1kHz	10kHz	100kHz or more
0.1 to 4.7	0.25	0.40	0.50	0.70	0.90	1.00
10 to 47	0.40	0.50	0.60	0.75	0.90	1.00
100 to 470	0.50	0.60	0.70	0.80	0.90	1.00

