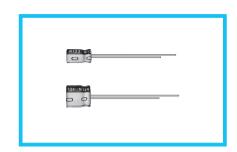
**USF** 

7mmL, Low Impedance



- Low impedance over wide temperature range of −55 to +105°C, with 7mm height.
- Compliant to the RoHS directive (2011/65/EU).

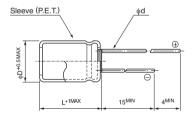




## ■Specifications

Item	Performance Characteristics									
Category Temperature Range	-55 to +105°C									
Rated Voltage Range	6.3 to 35V									
Rated Capacitance Range	6.8 to 220µF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV or 3(µA), whichever is greater.									
	Measurement frequency: 120Hz, Temperature: 20°C									
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	2	5	35			
	tan δ (MAX.)	0.18	0.16	0.14	0.1	12	0.12			
	Measurement frequency: 120Hz									
	Rated v	Rated voltage (V)		10	16	25	35			
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C	2	2	2	2	2			
	ZT / Z20 (MAX.)	Z-55°C / Z+20°C	3	3	3	3	3			
	The specifications			Capacita	Capacitance change		Within ±20% of the initial capacitance value			
Endurance	the capacitors are				tan δ		200% or less than the initial specified value			
	voltage is applied for 1000 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 brown sleeve.									

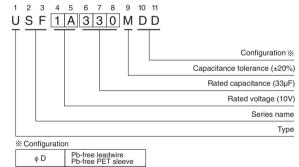
# ■Radial Lead Type





				(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 : $10V\ 33\mu F$ )



DD

## **■**Dimensions

	V	(	6.3			10			16			25			35	
Cap.(µF)	Code		0J			1A			1C			1E			1V	
6.8	6R8													4×7	3.3	70
10	100		į			i					4 × 7	3.3	70	5×7	1.7	110
15	150		1					4×7	3.3	70	5 × 7	1.7	110	6.3 × 7	0.8	160
22	220				4×7	3.3	70	5×7	1.7	110	5 × 7	1.7	110	6.3 × 7	0.8	160
33	330	5×7	1.7	110	5 × 7	1.7	110	6.3 × 7	0.8	160	6.3 × 7	0.8	160	8 × 7	0.5	200
47	470	5×7	1.7	110	$6.3 \times 7$	0.8	160	$6.3 \times 7$	0.8	160	8 × 7	0.5	200		!	Į.
68	680	6.3×7	0.8	160	6.3 × 7	0.8	160	8×7	0.5	200	8 × 7	0.5	200			
100	101	6.3×7	0.8	160	8 × 7	0.5	200	8×7	0.5	200					i	
150	151	8 × 7	0.5	200	8 × 7	0.5	200							Case size	Impe-	Rated
220	221	8 × 7	0.5	200		i								$\phi D \times L (mm)$	dance	ripple

4 to 8

Max. Impedance (Ω) at 20°C 100kHz Rated ripple current (mArms) at 105°C 100kHz

#### • Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

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