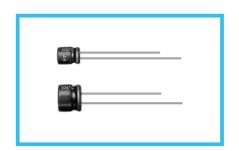




- Low impedance over wide temperature range of -55 to +105°C, with 5mm height.
- Suited for DC-DC converters where smaller case size and lower impedance are required.
- Compliant to the RoHS directive (2011/65/EU).

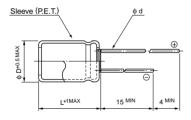


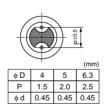


## ■Specifications

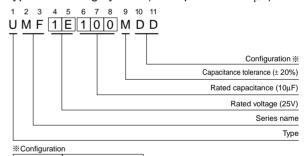
Item	Performance Characteristics										
Category Temperature Range	−55 to +105°C										
Rated Voltage Range	6.3 to 35V										
Rated Capacitance Range	1 to 100μF										
Rated Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.										
	Measurement frequency: 120Hz at 20°C										
Tangent of loss angle (tan $\delta$ )	Rated voltage (V)	6.3	10		16		25	35			
	tan δ (MAX.)	0.22	0.20		0.18		0.14	0.12			
	Measurement frequency : 120Hz										
Stability at Low Temperature	Rated voltage (V)				10	16	25	35			
	Impedance ratio Z-25	s°C / Z+20°C	2		2	2	2	2			
	ZT / Z20 (MAX.) Z-55	s°C /Z+20°C	4		4	3	3	3			
	The specifications listed at right shall be met										
Endurance	when the capacitors are restored to 20°C after the rated voltage is applied for 1000				apacitance o	hange		al capacitance value			
					η δ		200% or less than the initial specified value				
	hours at 105°C.	Leakage current			Less than or equal to the initial specified value						
Shelf Life	After storig 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





## Type numbering system (Example: 25V 10µF)



Pb-free leadwire Pb-free PET sleeve

ממ

φ D 4 to 6.3

## Dimensions

	V		6.3		10		16			25			35			
Cap.(μF)	Code		0J			1A			1C			1E			1V	
1	010			l I			l I			l I	l		1	4×5	5.0	50
1.5	1R5			l I			l I			l I				4×5	5.0	50
2.2	2R2			l I			l I			 			1	4×5	5.0	50
3.3	3R3			I I			l I			 			1	4×5	5.0	50
4.7	4R7			l I			l I			 	4×5	5.0	50	4×5	5.0	50
6.8	6R8			 			l I			 	4×5	5.0	50	5×5	2.6	¦ 80
10	100			l I			l I	4×5	5.0	¦ 50	5×5 ¦	2.6	80	5×5	2.6	¦ 80
15	150			I I			I I	5×5	2.6	¦ 80	6.3×5	1.3	115	6.3×5	1.3	¦ 115
22	220	4×5	5.0	¦ 50	5×5	2.6	¦ 80	5×5	2.6	¦ 80	6.3×5	1.3	115	6.3×5	1.3	¦ 115
33	330	5×5	2.6	¦ 80	5×5	2.6	¦ 80	6.3×5	1.3	¦ 115	6.3×5	1.3	115			
47	470	5×5	2.6	¦ 80	6.3×5	1.3	¦ 115	6.3×5	1.3	¦ 115			1			I I
68	680	6.3×5	1.3	115			I I			1			1	Case size	l Impedance	Rated ripple
100	101	6.3×5	1.3	¦ 115			I I			I I			1	φD×L (mm)	Impedance	ripple

Frequency coefficient of rated ripple current

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

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

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