Miniature Sized, High Reliability F

Miniature Sized,
High Reliability For Switching Power Supplies



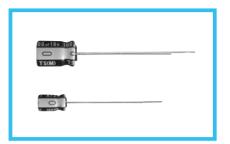




- Smaller case size and Long Life product.
- Compliant to the RoHS directive (2002/95/EC).

Products which are scheduled to be discontinued. Not recommended for new designs

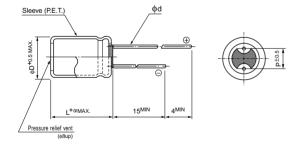




■Specifications

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	0.1 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.								
							Measurer	ment frequency	: 120Hz at 20°C	
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	25		35		50	
	tan δ (MAX.)	0.30	0.28	0.24	4 0.18			0.16	0.14	
	Measurement frequency : 120Hz									
O. 177	Rated	oltage (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 b	e met when the		Capaci	itance change	Within ±30%	% of the initial ca	apacitance value	
Endurance	capacitors are restored to 20°C after the rated voltage is applied					tan δ 300% or less than		ss than the initia	the initial specified value	
	for 5000 hours at 105°C. Leakage current Less than or equal to the initial specified by the control of the co							nitial 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

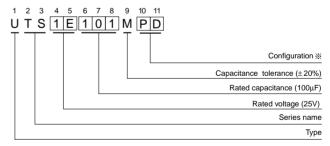


α	(L = 7) 1.0
	(L≥ 9) 1.5
	, ,

				(mm)
φD	4	5	6.3	8
Р	1.5	2.0	2.5	3.5
φd	0.45	0.45	0.5	0.6

(): Applied to 7mmL products

Type numbering system (Example : 25V 100µF)



* Configuration

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.



■Standard Ratings

V (Code)		6.3 (0J)		10 (1A)		16 (1C)		25 (1E)	
Cap.(µF)	Item Code	Case size ϕ D × L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size ϕ D × L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size ϕ D × L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size ϕ D × L (mm)	Rated ripple (mArms) 105°C / 100kHz
10	100					4×7	29		
22	220	4×7	40			5×7	50		
33	330			5×7	60			6.3×7	86
47	470	5 × 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						

V (Code)		35 ((1V)	50 (1H)		
Cap.(µF) Code		Case size ϕ D × L (mm)	Rated ripple (mArms) 105°C / 100kHz	Case size ϕ D × L (mm)	Rated ripple (mArms) 105°C / 100kHz	
0.1	0R1			4×7	3.3	
0.22	R22			4×7	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

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