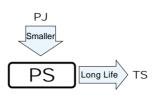
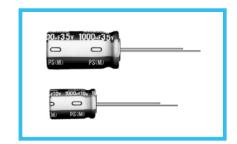


- Wide temperature range type, miniature sized.
- Compliant to the RoHS directive (2002/95/EC).



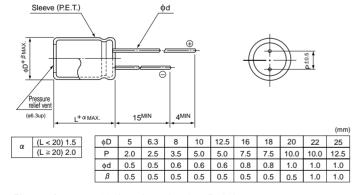




■ Specifications

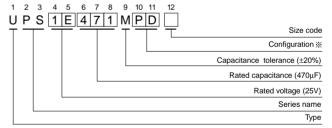
Item		Performance Characteristics											
Category Temperature Range	−55 to +105°C (6.3	55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 400V), -25 to +105°C (450V)											
Rated Voltage Range	6.3 to 450V	to 450V											
Rated Capacitance Range	0.47 to 15000µF	7 to 15000µF											
Capacitance Tolerance	±20% at 120Hz, 2	20°C											
Leakage Current	Rated voltage (V)	6.3 to 1		1	60 to 450								
	Leakage current		cation of rate CV or 4 (µA)	CV \leq 1000: I= 0.1CV+40 (μ A)max. (1 minute's) CV > 1000: I= 0.04CV+100 (μ A)max. (1 minute's)									
	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF Measurement frequency : 120Hz at 20°C												
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	25	35	50		100			400 · 450	
	tan δ (MAX.)	0.24	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	0.25	
										_		ncy : 120Hz	
	Rated v	oltage (V)		6.3 · 10	16 · 25	35 - 50				315 · 350		450	
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C Z-40°C / Z+20°C		_	_	_	3	3	6	8	6 10	15	
	(MAX.)	Z-55°C / Z+20°C		5	4	3	-	4	 0	-	—		
							•	•	•	•	,		
	The specifications listed at right shall be met when the Capacitance change Within ±20% of the initial capacitance											ance value	
Endurance	capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 3000 hours (2000 hours for φD= 5 to 10) at										cified value		
	105°C, the peak voltage shall not exceed the rated voltage. Less than or equal to the initial specified value												
Shelf Life	After storing the of 5101-4 clause 4.1											on JIS C	
Marking	Printed with white	color lette	r on dark	orown slee	ve.								

■Radial Lead Type



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

Type numbering system (Example : 25V $470\mu F$)



Frequency coefficient of rated ripple current

V	Cap.(µF) Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
	0.47 to 47	1	0.17	0.40	0.65	1.00
0.0 += 400	100 to 220	0.30	0.50	0.65	0.80	1.00
6.3 to 100	330 to 680	0.57	0.71	0.82	0.90	1.00
	1000 to 15000	0.75	0.87	0.96	0.98	1.00
160 to 450	0.47 to 220	0.80	1.00	1.25	1.40	1.60
160 to 450	330 to 470	0.90	1.00	1.10	1.13	1.15

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 (OJ)				10 (1A)			16 (1C)		25 (1E)				
Cap. (µF)	Item	Case size φD × L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	Case size φD × L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	Case size φD × L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	Case size \$\phi D \times L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz
4.7	4R7										5×11	1.50	160
10	100							5×11	1.50	160	5×11	1.50	160
22	220	5×11	1.50	160	5×11	1.50	160	5×11	1.50	160	5×11	1.50	160
33	330	5×11	1.50	160	5×11	1.50	160	5×11	1.50	160	5×11	1.50	160
47	470	5×11	1.50	160	5×11	1.50	160	5×11	1.50	160	5×11	1.50	160
100	101	5×11	1.50	160	5×11	1.50	160	6.3×11	0.50	250	6.3×11	0.50	250
150	151	6.3×11	0.50	250	6.3×11	0.50	250	6.3×11	0.50	250	8×11.5	0.28	410
220	221	6.3×11	0.50	250	6.3×11	0.50	250	8×11.5	0.28	410	8×11.5	0.28	410
330	331	6.3×11	0.50	250	8×11.5	0.28	410	8×11.5	0.28	410	10×12.5	0.19	600
470	471	8×11.5	0.28	410	8×11.5	0.28	410	10×12.5	0.19	600	10×16	0.14	800
680	681	10×12.5	0.19	600	10×12.5	0.19	600	10×16	0.14	800	10×20	0.11	1000
1000	102	10×12.5	0.19	600	10×16	0.14	800	10×20	0.11	1000	12.5×20	0.075	1250
1500	152	10×20	0.11	1000	10×20	0.11	1000	12.5×20	0.075	1250	16×25	0.038	1900
2200	222	12.5×20	0.075	1250	12.5×20	0.075	1250	12.5×25	0.057	1550	16×25	0.038	1900
3300	332	12.5×20	0.075	1250	12.5×25	0.057	1550	16×25	0.038	1900	16×31.5	0.033	2350
4700	472	16×25	0.038	1900	16×25	0.038	1900	16×31.5	0.033	2350	18×35.5	0.030	2700
6800	682	16×25	0.038	1900	16×31.5	0.033	2350	18×35.5	0.030	2700	18×40	0.027	3300
10000	103	16×31.5	0.033	2350	18×35.5	0.030	2700	18×40	0.027	3300			
15000	153	18×35.5	0.030	2700	18×40	0.027	3300						

V (Code) 35 (1V)				50 (1H)			63 (1J)		100 (2A)				
Cap. (µF)	Item	Case size $\phi D \times L$ (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	Case size φD × L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	Case size φD × L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz	Case size \$\phi D \times L (mm)	Impedance (Ω) MAX. 20°C/100kHz	Rated ripple (mArms) 105°C/100kHz
0.47	R47				5×11	7.50	25				5×11	43.0	20
1	010				5×11	5.30	40				5×11	20.0	30
2.2	2R2				5×11	4.50	55				5×11	9.80	44
3.3	3R3				5×11	3.90	65				5×11	6.60	58
4.7	4R7	5×11	1.50	160	5×11	3.50	90	5×11	4.70	68	5×11	4.60	74
10	100	5×11	1.50	160	5×11	2.10	120	5×11	2.10	110	6.3×11	1.80	130
22	220	5×11	1.50	160	5×11	1.80	150	6.3×11	0.98	180	8×11.5	0.68	230
33	330	5×11	1.50	160	6.3×11	0.65	250	6.3×11	0.71	220	10×12.5	0.46	320
47	470	6.3×11	0.50	250	6.3×11	0.65	250	8×11.5	0.65	310	10×16	0.37	420
100	101	8×11.5	0.28	410	8×11.5	0.36	340	10×12.5	0.31	390	12.5×20	0.18	580
150	151	8×11.5	0.28	410	10×12.5	0.26	490	10×16	0.25	440	12.5×25	0.13	710
220	221	10×12.5	0.19	600	10×16	0.18	650	10×20	0.20	700	16×25	0.10	890
330	331	10×16	0.14	800	10×20	0.15	810	12.5×20	0.12	980	16×25	0.090	1080
470	471	10×20	0.11	1000	12.5×20	0.13	1100	12.5×25	0.081	1200	16×31.5	0.076	1310
680	681	12.5×20	0.075	1250	12.5×25	0.10	1200	16×25	0.058	1300	16×35.5	0.064	1410
1000	102	12.5×25	0.057	1550	16×25	0.058	1600	16×31.5	0.049	1380	18×40	0.047	1520
1500	152	16×25	0.038	1900	16×31.5	0.040	2000	18×35.5	0.038	1750			
2200	222	16×31.5	0.033	2350	18×35.5	0.035	2300	18×40	0.032	2120			
3300	332	18×35.5	0.030	2700									
4700	472	18×40	0.027	3300									

	V	160		200		250		315		350		400		450	
Cap.(µF)	Code	2C		2D	2D			2F		2V		2G		2W	
0.47	R47	6.3 × 11	12	6.3 × 11	12	6.3 × 11	12	8 × 11.5	11	8 × 11.5	11				
1	010	6.3 × 11	17	6.3 × 11	17	6.3 × 11	17	8 × 11.5	16	10 × 12.5	17	10 × 12.5	16	10 × 12.5	18
2.2	2R2	6.3 × 11	25	6.3 × 11	25	8 × 11.5	29	10 × 12.5	28	10 × 16	31	10 × 16	27	10 × 20	29
3.3	3R3	8 × 11.5	36	8 × 11.5	36	10 × 12.5	42	10×12.5	34	10 × 16	38	10 × 20	36	12.5 × 20	41
4.7	4R7	8 × 11.5	43	10 × 12.5	50	10 × 12.5	50	10 × 16	45	10 × 20	49	10 × 20	43	12.5 × 20	49
10	100	10 × 12.5	70	10 × 16	80	10 × 20	88	10 × 20	72	12.5 × 20	82	12.5 × 25	72	16 × 25	75
22	220	10 × 20	130	10 × 20	140	12.5 × 25	155	12.5×25	120	16 × 25	130	16 × 25	110	16 × 31.5	115
33	330	12.5 × 20	180	12.5 × 25	190	12.5 × 25	190	16 × 25	155	16 × 31.5	160	16 × 31.5	140	•18 × 35.5	145
47	470	12.5 × 25	220	12.5 × 25	220	16 × 25	230	16 × 35.5	190	●18 × 35.5	200	•18 × 35.5	170	20 × 40	175
100	101	16 × 25	330	16 × 31.5	335	•18 × 35.5	340	Δ 18 \times 40	285	20 × 40	290	22 × 50	350	25 × 50	350
220	221	•18 × 35.5	500	Δ 18 \times 40	515	20 × 40	525	22 × 50	540	25 × 50	550		i		
330	331	20 × 40	900	22 × 40	1100	22 × 50	1150		!		!		!	Case size	Rated
470	471	22 × 50	1200	22 × 50	1310	25 × 50	1350							$\phi D \times L (mm)$	ripple

Rated ripple current (mArms) at 105°C 120Hz

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Nichicon:

UPS0J221MED UPS0J222MHD UPS1A101MDD UPS1A102MPD UPS1A102MPD1TD UPS1A103MHD UPS1A331MPD UPS1A332MHD UPS1A470MDD UPS0J152MPD UPS0J153MHD UPS0J220MDD UPS0J472MHD UPS0J681MPD UPS0J682MHD UPS0J102MPD UPS0J103MHD UPS0J151MED UPS0J332MHD UPS0J470MDD UPS0J471MPD UPS1A153MHD UPS1A220MDD UPS1A221MED UPS1A221MED1TD UPS1A221MEH UPS0J101MDD UPS0J330MDD UPS0J331MED UPS1A151MED UPS1A152MPD UPS1A471MPD UPS1A472MHD UPS1A681MPD UPS1C151MED UPS1C152MHD UPS1C152MHH UPS1C220MDD UPS1C681MPD UPS1C682MHD UPS1E100MDD UPS1E331MPD UPS1E332MHD UPS1H101MPD UPS1H101MPD1TA UPS1H101MPD1TD UPS1H101MPH UPS1H102MHD UPS1H102MHD1AA UPS1H102MHD1TN UPS1H151MPD UPS1A221MEH1TD UPS1A222MHD UPS1A330MDD UPS1C101MED1TD UPS1C101MEH UPS1C101MEH1TD UPS1C102MPD UPS1C102MPD1TD UPS1C102MPH UPS1C103MHD UPS1C470MDD UPS1C470MDH UPS1C471MPD UPS1C471MPD1TD UPS1C472MHD UPS1E221MPD UPS1E221MPD1TD UPS1E221MPH UPS1E222MHD UPS1E222MHH UPS1E330MDD UPS1A682MHD UPS1C100MDD UPS1C100MDD1TA UPS1C100MDH UPS1C101MED UPS1C331MPD UPS1C332MHD UPS1E102MHH1TO UPS1E151MPD UPS1C222MHD UPS1C222MHH UPS1C330MDD UPS1E101MED UPS1E102MHD UPS1E102MHD1TO UPS1E470MDD UPS1E470MDD1FA UPS1E471MPD UPS1E471MPD1TD UPS1E472MHD UPS1H152MHD UPS1H220MDD