

UR series

- High-temperature resistance , high ripple current.
- Load Life:2,000~3,000 hours at 135°C.
- RoHS Compliance
- 耐高溫、高紋波。
- 135°C 2,000~3,000小時長壽命品。



SPECIFICATIONS

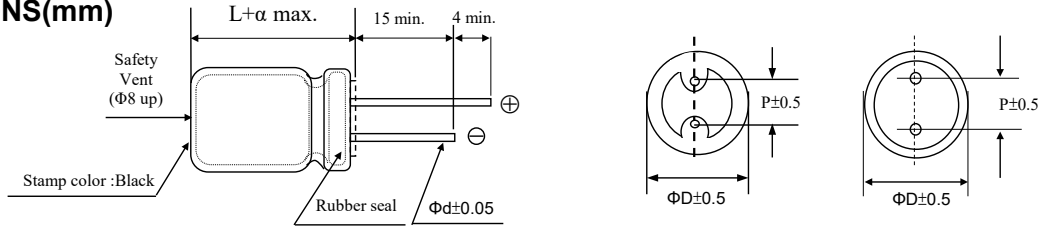
Items 項目	Characteristics 特性						
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz,20°C)						
Operating Temperature Range 適用溫度範圍	- 40 ~ +135°C						
Rated Voltage Range 額定電壓範圍	25 ~ 100VDC						
Leakage Current 洩漏電流	I≤0.03CV or 4 (μA)which is greater. (After 1 minutes application of DC rated voltage, at 20 °C)						
Leakage Current 散逸因素(tan δ)	Measurement Frequency:120Hz. Temperature: 20°C						
	Rated Voltage(V)	25	35	50	63	80	100
	tanδ (Max)	0.14	0.12	0.10	0.10	0.08	0.08
	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF .						
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency:120Hz						
	Rated Voltage(V)	25	35	50	63	80	100
	Z(-25°C) / Z(20°C)	2	2	2	2	2	3
	Z(-40°C) / Z(20°C)	4	4	4	4	4	4
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 3,000 hours (63~100VDC:2,000 hours)at 135°C.						
	Capacitance Change	within ±30% of Initial Value					
	tan δ	300% or less of Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000hours 125°C without voltage applied. Before the measurement. The Capacitance shall be preconditioned by applying voltage according to them 4.1 of JIS C 5101-4.						
	Capacitance Change	within ±30% of Initial Value					
	tan δ	300% or less of Initial Specified Value					
	Leakage Current	Initial Specified Value or less					
Standards 參照標準	IEC 60384-4(JIS C 5101-4)						

Frequency Coefficient of Permissible Ripple Current

Capacitance (μF)	Frequency (Hz)			
	120	1K	10K	100K
160	0.40	0.75	0.90	1.00
220~560	0.50	0.85	0.94	1.00
680~2000	0.60	0.87	0.95	1.00
2200~4300	0.75	0.90	0.95	1.00
4700~12000	0.85	0.95	0.98	1.00

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DIMENSIONS(mm)



ΦD	12.5	16	18
P	5.0	7.5	7.5
Φd	0.6	0.8	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

STANDARD RATINGS

DxL(mm), R.C.(mA rms) at 125°C, 135°C 100kHz ; IMP(Ωmax)at 20°C,-40°C 100kHz.

Cap (μF)	V	Item	D x L	25				35				
				IMP		R.C.		D x L	IMP		R.C.	
				20°C	-40°C	125°C	135°C		20°C	-40°C	125°C	135°C
1300								12.5x20	0.045	0.510	2760	1690
1800								12.5x25	0.036	0.330	3460	1990
2000			12.5x20	0.046	0.510	2,740	1,670	16x20	0.038	0.300	3020	1840
2200								12.5x30	0.031	0.270	4490	2900
2400								18x20	0.037	0.250	3230	1850
2700								12.5x35	0.027	0.230	5140	3190
3000			12.5x25	0.035	0.330	3,480	2,010	16x25	0.031	0.250	4240	2750
3300			16x20	0.038	0.310	3,040	1,860	12.5x40	0.027	0.220	5780	3440
3600			12.5x30	0.031	0.270	4,490	2,900	16x30	0.025	0.200	5480	3400
3900								18x25	0.031	0.230	4400	2800
4300			18x20	0.037	0.260	3,250	1,870	16x35	0.023	0.170	6050	3600
4700			12.5x35	0.028	0.250	5,140	3,190	18x30	0.026	0.190	5570	3450
			16x25	0.032	0.260	4,260	2,870					
5100			12.5x40	0.027	0.220	5,800	3,460					
5600			16x30	0.026	0.210	5,460	3,380	16x40	0.022	0.150	6780	3900
6200			18x25	0.031	0.220	4,500	2,900	18x35	0.022	0.150	6280	3750
7500			16x35	0.024	0.170	6,050	3,600	18x40	0.020	0.130	7070	4080
			18x30	0.025	0.190	5,580	3,450					
9100			16x40	0.022	0.150	6,810	3,900					
10000			18x35	0.022	0.150	6,280	3,750					
12000			18x40	0.021	0.130	7,070	4,080					

Cap (μF)	V	Item	D x L	50				63				
				IMP		R.C.		D x L	IMP		R.C.	
				20°C	-40°C	125°C	135°C		20°C	-40°C	125°C	135°C
390								12.5x20	0.072	0.560	1640	1420
560								12.5x25	0.056	0.420	2500	2020
620			12.5x20	0.073	0.880	2400	1470					
680								16x20	0.057	0.380	2110	1880
750								12.5x30	0.046	0.330	3080	2600
820			12.5x25	0.057	0.660	3350	2260					
910								12.5x35	0.038	0.290	3730	2930
								18x20	0.047	0.300	2320	2070
1000			16x20	0.053	0.580	2940	1850	16x25	0.042	0.270	2910	2650
1100			12.5x30	0.052	0.550	4200	2500	12.5x40	0.035	0.260	4580	3230
1200								16x30	0.038	0.240	3840	3020
1300			12.5x35	0.045	0.470	4780	2750	18x25	0.037	0.230	3060	2790
			16x25	0.045	0.470	4020	2480					
			18x20	0.045	0.470	3110	2080					
1600			12.5x40	0.040	0.390	5220	3000	16x35	0.031	0.190	4560	3400
			16x30	0.039	0.400	5100	2920	18x30	0.032	0.190	4050	3190
1800			18x25	0.036	0.350	4210	2510	16x40	0.029	0.180	5160	3640
			16x35	0.032	0.300	5450	3120	18x35	0.026	0.160	5180	3650
2400			18x30	0.030	0.280	5240	3020	18x40	0.024	0.150	5600	3760
2700			16x40	0.028	0.250	5900	3390					
3000			18x35	0.027	0.230	5850	3360					
3600			18x40	0.026	0.190	6400	3680					

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STANDARD RATINGS

DxL(mm), R.C.(mA rms) at 125°C, 135°C 100kHz ; IMP(Ω max)at 20°C,-40°C 100kHz.

Cap (μ F)	V Item	80				100					
		D x L	IMP		R.C.		D x L	IMP		R.C.	
			20°C	-40°C	125°C	135°C		20°C	-40°C	125°C	135°C
160						12.5x20	0.094	0.790	1560	1380	
220						12.5x25	0.072	0.590	2120	1940	
270		12.5x20	0.075	0.600	1,600	1,380	16x20	0.071	0.510	2020	1650
300							12.5x30	0.052	0.410	2950	2330
360							12.5x35	0.049	0.390	3500	2600
							18x20	0.065	0.390	2240	1830
390		12.5x25	0.056	0.430	2,480	2,020	16x25	0.052	0.370	2770	2330
430							12.5x40	0.042	0.330	4120	2900
470		16x20	0.057	0.380	2,120	1890	16x30	0.045	0.310	3440	2720
510		12.5x30	0.046	0.340	3,050	2600	18x25	0.049	0.290	2900	2450
560							16x35	0.038	0.250	4170	2940
620		12.5x35	0.039	0.290	3730	2950	18x30	0.040	0.230	3900	2900
		18x20	0.048	0.300	2320	2080					
680		16x25	0.042	0.270	2910	2670					
750		12.5x40	0.035	0.260	4590	3240	16x40	0.032	0.220	5000	3360
		16x30	0.038	0.240	3840	3020					
820		18x25	0.037	0.230	3080	2810	18x35	0.034	0.200	4680	3300
910							18x40	0.030	0.180	5260	3540
1000		16x35	0.031	0.190	4570	3400					
1100		18x30	0.032	0.190	4060	3200					
1300		16x40	0.029	0.180	5170	3650					
1300		18x35	0.026	0.160	5200	3670					
1600		18x40	0.025	0.150	5640	3800					

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