

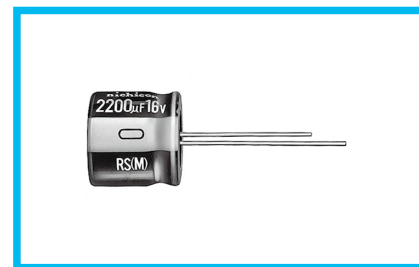
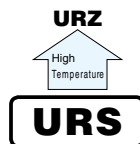
# URS

Compact & Low-profile Sized



Smaller

- Compact & low profile case size.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

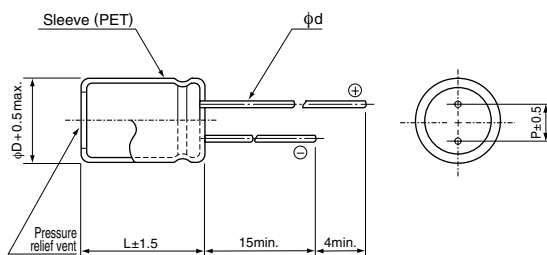


## Specifications

Item	Performance Characteristics									
Category Temperature Range	-40 to +85°C									
Rated Voltage Range	16 to 100V									
Rated Capacitance Range	47 to 6800μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current ※	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV(μA). After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV(μA).									
Tangent of loss angle (tan δ)	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.							Measurement frequency : 120Hz at 20°C		
	Rated voltage (V)	16	25	35	50	63	100			
	tan δ (max.)	0.20	0.16	0.14	0.12	0.10	0.08			
Stability at Low Temperature	Rated voltage (V)			16	25	35	50	63	100	Measurement frequency : 120Hz
	Impedance ratio (max.)	Z(-25°C) / Z(+20°C)		3	2	2	2	2	2	
		Z(-40°C) / Z(+20°C)		8	5	4	3	3	3	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 85°C.						Capacitance change	Within ±20% of the initial capacitance value		
							tan δ	200% or less than the initial specified value		
							Leakage current	Less than or equal to the initial specified value		
Shelf Life	After storing the capacitors under no load at 85°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 black sleeve.									

※ I : Leakage Current (µA), C : Rated Capacitance (µF), V : Rated Voltage (V)

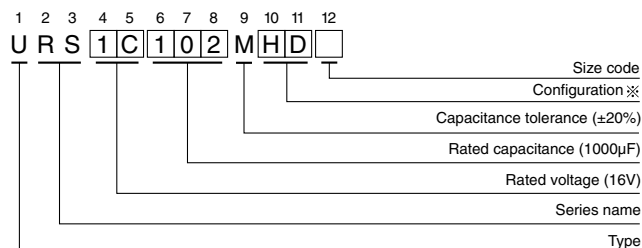
## Radial Lead Type



	(mm)			
φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6	0.6	0.8	0.8

- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

## Type numbering system (Example : 16V 1000µF)



※ Configuration	
φ D	Pb-free leadwire Pb-free PET sleeve
10	PD
12.5 to 18	HD

## Frequency coefficient of rated ripple current

Cap.(µF)	Frequency	50Hz	120Hz	300Hz	1 kHz	10 kHz or more
47		0.75	1.00	1.35	1.57	2.00
100 to 470		0.80	1.00	1.23	1.34	1.50
1000 to 6800		0.85	1.00	1.10	1.13	1.15

● Dimension table in next page.

URS

## ■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance ( $\mu$ F)	Case Size $\phi$ D $\times$ L (mm)	tan $\delta$	Leakage Current ( $\mu$ A)		Rated Ripple (mA <sub>rms</sub> ) (85°C/120Hz)	Part Number
				at 20°C after 1 minute	at 20°C after 2 minutes		
16 (1C)	1000	12.5 $\times$ 12.5	0.20	480	160	720	URS1C102MHD
	2200	16 $\times$ 15	0.22	1056	352	1160	URS1C222MHD
	3300	18 $\times$ 15	0.24	1584	528	1460	URS1C332MHD
	4700	18 $\times$ 20	0.26	2256	752	1770	URS1C472MHD
	6800	18 $\times$ 25	0.30	3264	1088	2170	URS1C682MHD
25 (1E)	470	10 $\times$ 12.5	0.16	352.5	117.5	530	URS1E471MPD
	1000	12.5 $\times$ 15	0.16	750	250	830	URS1E102MHD
	2200	18 $\times$ 15	0.18	1650	550	1360	URS1E222MHD
	3300	18 $\times$ 20	0.20	2475	825	1720	URS1E332MHD
	4700	18 $\times$ 25	0.22	3525	1175	2050	URS1E472MHD
35 (1V)	330	10 $\times$ 12.5	0.14	346.5	115.5	480	URS1V331MPD
	470	12.5 $\times$ 12.5	0.14	493.5	164.5	590	URS1V471MHD
	1000	16 $\times$ 15	0.14	1050	350	1010	URS1V102MHD
	2200	18 $\times$ 20	0.16	2310	770	1560	URS1V222MHD
50 (1H)	220	10 $\times$ 12.5	0.12	330	110	420	URS1H221MPD
	330	12.5 $\times$ 12.5	0.12	495	165	530	URS1H331MHD
	470	16 $\times$ 15	0.12	705	235	750	URS1H471MHD
	1000	18 $\times$ 20	0.12	1500	500	1160	URS1H102MHD
63 (1J)	220	12.5 $\times$ 12.5	0.10	415.8	138.6	490	URS1J221MHD
	330	12.5 $\times$ 15	0.10	623.7	207.9	710	URS1J331MHD
	470	16 $\times$ 15	0.10	888.3	296.1	900	URS1J471MHD
100 (2A)	47	10 $\times$ 12.5	0.08	141	47	230	URS2A470MPD
	100	12.5 $\times$ 15	0.08	300	100	370	URS2A101MHD
	220	16 $\times$ 15	0.08	660	220	620	URS2A221MHD
	330	18 $\times$ 15	0.08	990	330	760	URS2A331MHD

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).  
If there is no size code in the part number, please add size code "1" and then add the appropriate code.

- For formed lead or taped product specifications and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.