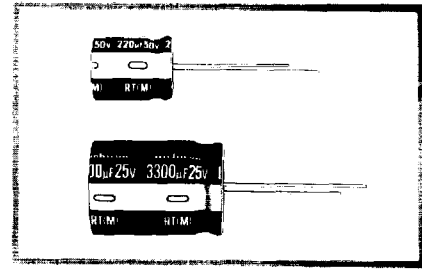
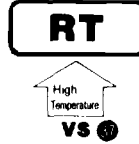


ALUMINUM ELECTROLYTIC CAPACITORS

RT Low-Profile Sized. Wide Temperature Range series



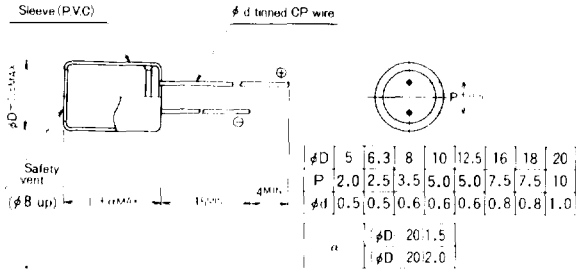
- Low-profile case sizes same as VS series, but operating over wide temperature range.
- Higher voltage ratings available up to 400V.



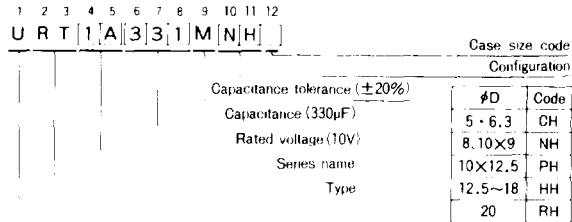
Specifications

Item	Performance Characteristics
Operating Temperature Range	-55~+105°C (6.3~50V), -40~+105°C (160~400V)
Voltage Range	6.3~400V
Capacitance Range	0.1~10000µF
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	Rated voltage (V) 6.3~50V
	Leakage current After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3(µA), whichever is greater.
tan δ	160~400V
	0.04CV+100(µA), after 1 minute's application of rated voltage.
Stability at Low Temperature	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency: 120 Hz, Temperature: 20°C
	Rated voltage (V) 6.3 10 16 25 35 50 160~250 400
Load Life	tan δ (MAX.) 0.26 0.22 0.18 0.16 0.14 0.12 0.15 0.20
	Measurement frequency: 120Hz
Shelf Life	Rated voltage (V) 6.3 10 16 25 35 50 160~200 250 400
	Impedance ratio Z-25°C/Z+20°C 4 3 2 2 2 2 3 3 3 6 6
Marking	ZT/Z20(MAX.) Z-40°C/Z+20°C 8 6 4 3 3 3 4 6 6
	After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristics requirements listed at right.
Applicable Standards	Leakage current Initial specified value or less
	Capacitance change Within ±20% of initial value
	tan δ 200% or less of initial specified value
	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above.
	Printed with white color letter on black sleeve according to JIS C-5141.
	JIS C-5141 and JIS C-5102.

Radial Lead Type



Type numbering system (Example: 10V 330µF)



Dimensions

Cap. (µF)	Code	DXL (mm)															
		6.3	10	16	25	35	50	160	200	250	400						
0.1	0R1																
0.22	R22																
0.33	R33																
0.47	R47																
1	010																
2.2	2R2																
3.3	3R3																
4.7	4R7																
10	100																
22	220																
33	330																
47	470																
68	680																
100	101																
150	151																
220	221																
330	331																
470	471																
1000	102																
2200	222																
3300	332																
4700	472																
6800	682																
10000	103																

Size 16x20 is available for capacitors marked: " * " Size 20x15 is available for capacitors marked: " △ " Size 20x20 is available for capacitors marked: " ★ ". Allowable Ripple (mA rms) at 105°C 120Hz In this case, 6 will be put at 12th digit of type numbering system.

Frequency coefficient of allowable ripple current

V	Cap. (µF)	Frequency (Hz)	50	120	300	1k	10k~
6.3~50	~47	~47	0.75	1.00	1.35	1.57	2.00
		100~470	0.80	1.00	1.23	1.34	1.50
		1000~10000	0.85	1.00	1.10	1.13	1.15
160~400	10~150		0.80	1.00	1.25	1.40	1.60

Allowable ripple current vs. temperature

Ambient temp. (°C)	+70	+85	+105
Coefficient	1.62	1.40	1.00