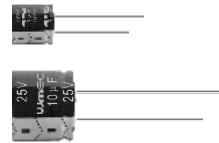


## RS Wide Temperature Range, Height 5mm Series

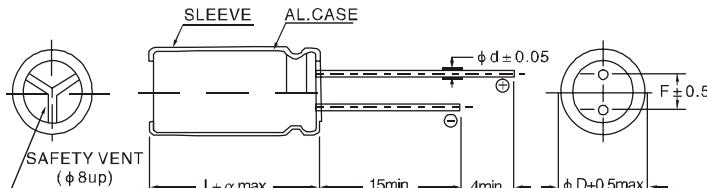
- Ultra miniature series with height 5mm
- Suitable to replace tantalum capacitors at low cost
- Wide operating temperature range of -40°C~+105°C



### • SPECIFICATIONS

Item	Characteristics														
Operating Temperature Range	-40~+105°C														
Rated Working Voltage Range	4~50V.DC														
Capacitance Tolerance	$\pm 20\%(\text{M})$ at 120Hz, 25°C														
Leakage Current (max.)	I=0.01CV or 3 μ A whichever is greater after 2 minutes I: Leakage Current (μ A) C: Nominal Capacitance(μ F) Rated Working Voltage (V)														
Dissipation Factor (tan δ) (at 120Hz, 25°C) (max.)	WV	4	6.3	10	16	25	35	50							
	tan δ	0.35	0.27	0.23	0.19	0.15	0.13	0.11							
Low Temperature Stability (Impedance ratio at 120Hz)	WV	4	6.3	10	16	25	35	25~35							
	Z(-25°C)/Z(+25°C)	7	3	3	2	2									
	Z(-40°C)/Z(+25°C)	12	8	5	4	3									
Load Life	After 1000 hours application of W. V. at 105°C, the capacitor shall meet the following limits.														
	Capacitance Change	$\leq \pm 25\%$ of the initial value.													
	Dissipation Factor	$\leq 200\%$ of the initial specified value.													
Shelf Life(105°C)	After 500 hours of no load test, leakage current, capacitance and tan δ are same as load life value.														
Reference Standard	JISC – 5141														

### • DRAWING(Unit:mm)



φ D	4	5	6	8
F	1.5	2.0	2.5	2.5 3.5
φ d	0.45	0.45	0.45	0.45
α	1.0			1.5

### • DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV	4		6.3		10		16		25		35		50	
Cap.(μF)	SIZE	R.C.	SIZE	R.C.										
0.1													4×5	1.6
0.22													4×5	2.4
0.33													4×5	3.2
0.47													4×5	4
0.68													4×5	5.6
1.0													4×5	5.6
2.2													4×5	10
3.3											4×5	11	4×5	12
4.7									4×5	12	4×5	13	5×5	15
6.8								4×5	15	5×5	17	5×5	20	
10		4×5	12	4×5	13	4×5	16	5×5	19	5×5	22	6.3×5	26	
22	4×5	16	4×5	16	5×5	22	5×5	29	6.3×5	34	6.3×5	36		
33	4×5	20	5×5	23	5×5	29	6.3×5	37	6.3×5	45				
47	4×5	24	5×5	28	6.3×5	35	6.3×5	46	6.3×5	58				
68	5×5	36	6.3×5	46	6.3×5	47	6.3×5	52	8×5	58				
100	5×5	41	6.3×5	50	6.3×5	52	6.3×5	58	8×5	65				
220	6.3×5	56	8×5	60	8×5	65								
330	8×5	150	8×5	175										

↑ Ripple current (mA rms) at 105°C, 120Hz  
 ↑ Case size φ D × L(mm)