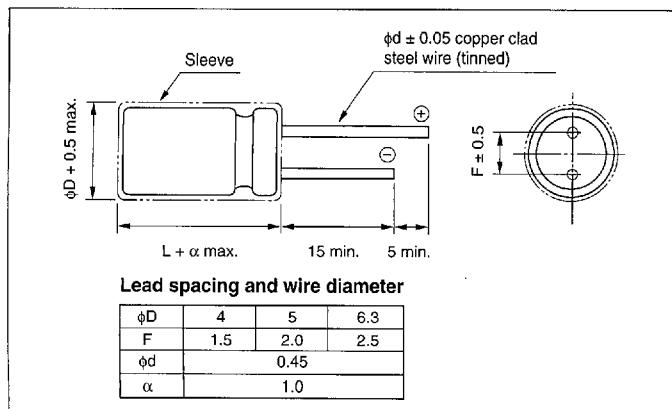
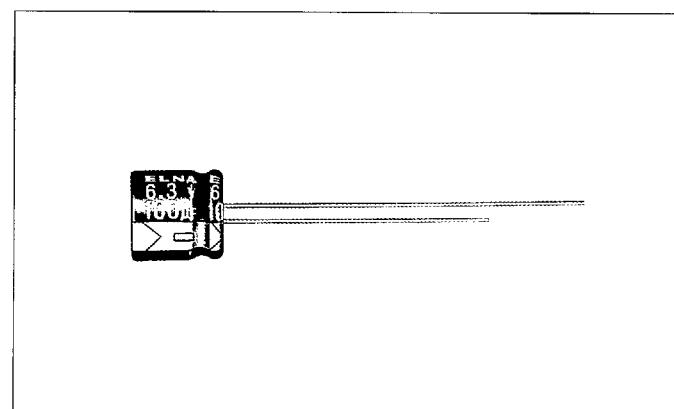


**R2S Miniature Aluminum Electrolytic Capacitors****Series R2S 105°C Ultraminiature Capacitors (7 mm in height)**

- 7 mm length at case dia. 4 — 6.3 mm.
- Guaranteed for 1000 hours at 105°C.

**Outline Drawing****Photo**

Unit: mm

**Specifications**

No.	Item	Performance														
1	Temperature range (°C)	-55 to +105														
2	Leakage current (μA)	Less than 0.01 CV or 3 whichever is larger (after two minutes), C: Capacitance (μF), V: Voltage (V)														
3	Capacitance tolerance (%)	±20														
4	Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16	25	35	50								
		tan δ	0.22	0.19	0.16	0.14	0.12	0.10								
		(20°C, 120 Hz)														
5	Stability at low temperature	Rated voltage (V)	6.3	10	16	25	35	50								
		Impedance ratio	Z-25°C/Z+20°C	3		2										
			Z-40°C/Z+20°C	8	5	4	3									
		(120 Hz)														
6	Endurance (105°C) (Applied ripple current)	Test time	1000 hrs													
		Leakage current	Initial specified value or less													
		Change in capacitance	Within ±20% of initial value													
		tan δ	200% or less of initial specified value													
7	Max. storage temp. (105°C)	Test time	500 hrs													
		Leakage current	Initial specified value or less													
		Change in capacitance	Within ±20% of initial value													
		tan δ	200% or less of initial specified value													
		Pretreatment performed (JIS C 5102).														
8	Applicable Standards	JIS C 5102 and JIS C 5141.														

**Coefficients of Frequency for Ripple Current**

Frequency (Hz) Rated Voltage (V)	50 • 60	120	1 k	10 k • 100 k
6.3 to 16	0.68	0.72	0.92	1
25 to 35	0.48	0.63	0.80	1
50	0.45	0.50	0.70	1

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**Coefficients of Temperature for Ripple Current**

Temperature (°C)	+70 or less	+85	+105
Coefficients	2.10	1.80	1

**R2S Miniature Aluminum Electrolytic Capacitors**

Case size by working voltage &amp; capacitance (in mm)

(mm)

WV(V) Cap.( $\mu$ F)	6.3	10	16	25	35	50
0.1						4 x 7
0.22						4 x 7
0.33						4 x 7
0.47						4 x 7
1						4 x 7
2.2						4 x 7
3.3				4 x 7	4 x 7	4 x 7
4.7				4 x 7	4 x 7	5 x 7
10			4 x 7	5 x 7	5 x 7	6.3 x 7
22	4 x 7	5 x 7	5 x 7	6.3 x 7	6.3 x 7	
33	5 x 7	5 x 7	6.3 x 7	6.3 x 7		
47	5 x 7	6.3 x 6	6.3 x 7			
100	6.3 x 7					

**Standard Ratings**

ELNA PART NO. / WV (V)	CAP. ( $\mu$ F)	SIZE ( $\phi$ x L) (mm)	$\tan \delta$	Ripple Current (mAmps)
<b>6.3 V</b>				
R2S-6V220MAX	22	4 x 7	0.22	42
R2S-6V330MAX	33	5 x 7	0.22	53
R2S-6V470MAX	47	5 x 7	0.22	64
R2S-6V101MAX	100	6.3 x 7	0.22	96
<b>10 V</b>				
R2S-10V220MAX	22	5 x 7	0.19	49
R2S-10V330MAX	33	5 x 7	0.19	60
R2S-10V470MAX	47	6.3 x 7	0.19	95
<b>16 V</b>				
R2S-16V100MAX	10	4 x 7	0.16	39
R2S-16V220MAX	22	5 x 7	0.16	54
R2S-16V330MAX	33	6.3 x 7	0.16	83
R2S-16V470MAX	47	6.3 x 7	0.16	95
<b>25 V</b>				
R2S-25V3R3MAX	3.3	4 x 7	0.14	21
R2S-25V4R7MAX	4.7	4 x 7	0.14	25
R2S-25V100MAX	10	5 x 7	0.14	47
R2S-25V220MAX	22	6.3 x 7	0.14	87
R2S-25V330MAX	33	6.3 x 7	0.14	90

ELNA PART NO. / WV (V)	CAP. ( $\mu$ F)	SIZE ( $\phi$ x L) (mm)	$\tan \delta$	Ripple Current (mAmps)
<b>35 V</b>				
R2S-35V3R3MAX	3.3	4 x 7	0.12	23
R2S-35V4R7MAX	4.7	4 x 7	0.12	25
R2S-35V100MAX	10	5 x 7	0.12	48
R2S-35V220MAX	22	6.3 x 7	0.12	90
<b>50 V</b>				
R2S-50VR10MAX	0.1	4 x 7	0.10	6
R2S-50VR22MAX	0.22	4 x 7	0.10	8
R2S-50VR33MAX	0.33	4 x 7	0.10	10
R2S-50VR47MAX	0.47	4 x 7	0.10	12
R2S-50V010MAX	1	4 x 7	0.10	16
R2S-50V2R2MAX	2.2	4 x 7	0.10	25
R2S-50V3R3MAX	3.3	4 x 7	0.10	28
R2S-50V4R7MAX	4.7	5 x 7	0.10	48
R2S-50V100MAX	10	6.3 x 7	0.10	75

Note: Allowable Ripple Current 100 kHz at 105°C