

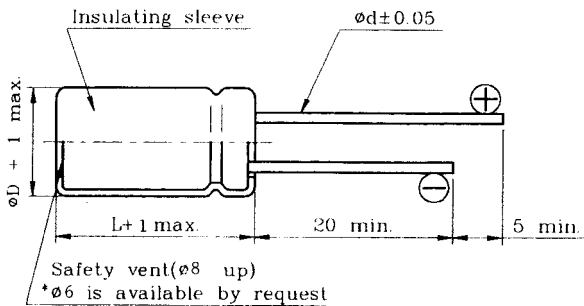
## E5R SERIES

- Ultra miniature Radial Type 5mm Height
- Designed for use in VCRs, car radios, Car stereos.

### Characteristics

<b>Voltage Range</b>	4 ~ 50 V							
<b>Capacitance Range</b>	0.1 ~ 220uF							
<b>Temperature Range</b>	-40 ~ + 105°C							
<b>Capacitance Tolerance</b>	+20% -20% (at 20°C, 120Hz)							
<b>Leakage Current</b>	≤0.01CV or 3uA, whichever is greater (After 2 minutes)							
<b>Dissipation Factor</b>	Rated Voltage (V)	4V	6.3V	10V	16V	25V	35V	50V
	Dissipation Factor( tan δ )max	0.35	0.24	0.20	0.16	0.14	0.12	0.10
(at 20°C, 120Hz)								
<b>Stability at Low Temperature</b>	Impedance ration at 120Hz							
	Rated Voltage (V)	4V	6.3V	10V	16V	25V	35V	50V
	Z-25°C/Z 20°C	7	4	3	2	2	2	2
	Z-40°C/Z 20°C	15	8	6	4	4	3	3
<b>Load Life</b>	After the rated voltage has been applied for 1000 hours at 105°C	Capacitance change	Within ±20% of initial value					
		D.F. tanδ	200% of less of initial specified value					
		Leakage current	Initial specified value of less					
<b>Shelf Life</b>	After storage for 500 hours at 105°C, with no voltage applied and being stabilized at +20°C, Capacitor shall meet the limit specified in load life.							

### Diagram of dimensions



Dφ	3	4	5	6	8
p	1±0.3	1.5	2.0	2.5	3.5
dφ	0.4	0.45			

### Maximum Ripple Current mA rms 105°C 120Hz Case Size of Standard Products DxL(mm)

uF \ WV	4	6.3	10	16	25	35	50
0.1							1.0
0.22							2.0
0.33							2.8
0.47							4.0
1							8.0
2.2						8.4	10
3.3					10	10	17
4.7				10	16	18	20
10		15	28	23	27	30	33
22	19	28	28	37	42	46	48
33	26	37	41	49	53	62	
47	34	45	45	58	60	80	
100	61	70	80	85	120		
220	82	90	120				

uF \ WV	4	6.3	10	16	25	35	50
0.1					→		4x5*
0.22	All Blank Voltage on sleeve marking is same Voltage				→		4x5*
0.33	"→" point to				→		4x5*
0.47					→		4x5*
1							4x5*
2.2						4x5*	4x5*
3.3					4x5*	4x5*	4x5
4.7				4x5*	4x5*	4x5	5x5
10		4x5*	4x5*	4x5*	4x5	5x5	6x5
22	4x5*	4x5*	4x5	5x5	5x5	6x5	6x5
33	4x5*	4x5	5x5	5x5	6x5	8x5	
47	4x5	5x5	5x5	6x5	6x5	8x5	
100	5x5	6x5	6x5	6x5	8x5		
220	6x5	6x5	8x5				

\* Also 3x5 is available