

### S5

Low Profile Series

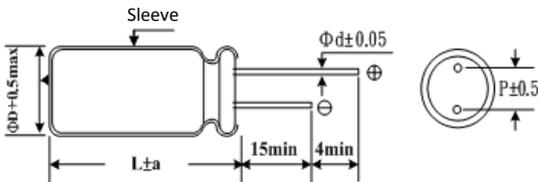
- Endurance: 105°C 1000hours
- Recommended Applications :Applicable for VTR,Camera,Car Audio,Miniaudio and other industrial/commercial applications
- Corresponding product to RoHS



### ■ SPECIFICATIONS

Item	Characteristics																						
Category Temperature Range	-40 ~ +105°C																						
Rated Voltage Range	6.3 ~ 50VDC																						
Rated Capacitance Range	1 ~ 470 µF																						
Capacitance Tolerance	± 20 % at 120Hz , 20°C																						
Leakage Current (20°C)	I=0.01CV or 3(µA) whichever is greater.(After rated voltage applied for 2 minutes) I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V)																						
Dissipation Factor(MAX) (tan δ ) (120Hz ,20°C)	<table border="1"> <tr> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tan δ</td> <td>0.24</td> <td>0.20</td> <td>0.17</td> <td>0.15</td> <td>0.12</td> <td>0.10</td> </tr> </table>	WV	6.3	10	16	25	35	50	tan δ	0.24	0.20	0.17	0.15	0.12	0.10								
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Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <tr> <td rowspan="3">Z(120Hz)</td> <td>WV</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	Z(120Hz)	WV	6.3	10	16	25	35	50	Z-25°C / Z+20°C	4	3	2	2	2	2	Z-40°C / Z+20°C	8	6	4	4	3	3
Z(120Hz)	WV		6.3	10	16	25	35	50															
	Z-25°C / Z+20°C		4	3	2	2	2	2															
	Z-40°C / Z+20°C	8	6	4	4	3	3																
Endurance	After apply rated voltage for 1000 hours at 105°C,the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance change</td> <td>Within ± 20% of initial value</td> </tr> <tr> <td>D.F. (tan δ )</td> <td>Not more than 200% of specified value</td> </tr> <tr> <td>Leakage current</td> <td>initial specified value or less</td> </tr> </table>	Capacitance change	Within ± 20% of initial value	D.F. (tan δ )	Not more than 200% of specified value	Leakage current	initial specified value or less																
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Shelf Life	After placed at 105°C without voltage applied for 500 hours,the capacitors shall meet the sane requirement as Endurance.																						

### ■ Dimensions [mm]



ΦD	4.0	5.0	6.3	8.0
P	1.5	2.0	2.5	3.5
Φd	0.45			
a	1.0			

Notes : 8 Φ have ven

### ■ Multiplier for Ripple Current

Freq. (Hz)	120	300	1K	10K
1~47 µF	1.00	1.20	1.30	1.50
100~330 µF	1.00	1.10	1.15	1.20

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■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (mA/rms105°C) (120Hz)	Rated Voltage (SurageVoltage) (V)	Cap ( $\mu$ F)	Case size $\Phi$ DxL(mm)	$\tan \delta$	Ripple current (mA/rms105°C) (120Hz)			
6.3 (8)	10	4x5	0.24	18	16 (20)	47	5x5	0.17	54			
	22	4x5	0.24	28			6.3x5	0.17	58			
	33	4x5	0.24	33			6.3x5	0.17	85			
	10 (13)	47	4x5	0.24	35	25 (32)	100	4x5	0.15	16		
			5x5	0.24	45			4x5	0.15	20		
		100	5x5	0.24	55			10	5x5	0.15	27	
			6.3x5	0.24	70			22	6.3x5	0.15	42	
			220	6.3x5	0.24			90	33	5x5	0.15	45
330		8x5	0.24	115	6.3x5			0.15		53		
16 (20)		470	8x5	0.24	100			47	5x5	0.15	55	
			10 (13)	10	4x5			0.20	20	6.3x5	0.15	65
	22			5x5	0.20			33	100	8x5	0.15	90
	33			4x5	0.20			34	35 (44)	4.7	4x5	0.12
				5x5	0.20	41	10	5x5		0.12	30	
	47			5x5	0.20	46	22	6.3x5		0.12	48	
6.3 (8)	470	6.3x5	0.20	54	50 (63)	1.0	4x5	0.10	9			
		100	6.3x5	0.20			80	2.2	4x5	0.10	13	
		16 (20)	4.7	4x5			0.17	20	3.3	4x5	0.10	17
			10	4x5			0.17	23	4.7	4x5	0.10	17
			22	4x5			0.17	29		5x5	0.10	20
			22	5x5			0.17	37	10	6.3x5	0.10	33
			33	5x5			0.17	44	22	6.3x5	0.1	55
		6.3x5		0.17			49					