

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

I14058 (SHE)

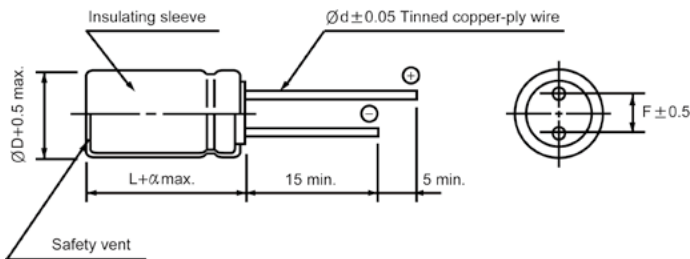
High Ripple Current, Ultra Low Impedance Series

- Enabled high ripple current by a reduction of impedance at high frequency range
- High reliability withstanding 5000 hours load life at 105°C
- Complied to the RoHS directive

Items	Performance characteristics											
Operating temperature range	-40 ~ +105°C											
Leakage current max.	I=0.01CV or 3μA whichever is greater (after 2 minutes) I=0.03CV or 4μA whichever is greater (after 1 minute)											
Capacitance tolerance	±20% at 120Hz, 20°C											
Dissipation factor max. (at 120Hz, 20°C)	Capacitance > 1000μF:tanδ increases by 0.02 for each 1000μF from below value.											
	<table border="1"> <thead> <tr> <th>WV</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Tanδ</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table>	WV	10	16	25	35	50	Tanδ	0.19	0.16	0.14	0.12
WV	10	16	25	35	50							
Tanδ	0.19	0.16	0.14	0.12	0.10							
Low temperature characteristics (Impedance ratio at 120Hz)	Z-40°C /Z+20°C											
	Z-25°C /Z+20°C											
Load life (after application of the rated voltage for 5000 hours at 105°C)	Leakage current	Less than specified value										
	Capacitance change	Within ±25% of initial value										
	Tanδ	Less than 200% of specified value										
	Φ5, Φ6.3 : 2000 hours; Φ8 : 3000 hours; ≥Φ10: 5000 hours.											
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.											

● DRAWING

Unit : mm



ΦD	5	6.3	8	10	12.5
F	2.0	2.5	3.5	5.0	5.0
Φd	0.5			0.6	
α	1.5			2.0	

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency μF	120Hz	1kHz	10kHz	50kHz	100kHz≤
22 ~ 47	0.18	0.70	0.90	0.94	1.00
56 ~ 100	0.27	0.73	0.92	0.95	1.00
120 ~ 270	0.49	0.73	0.92	0.96	1.00
330 ~ 680	0.55	0.77	0.94	0.97	1.00
820 ~ 1500	0.60	0.80	0.96	0.98	1.00
2200 ~ 3900	0.70	0.85	0.98	0.99	1.00

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

I14058 (SHE) Series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV μF	10			16		
	56				5×11	0.150
100	5×11	0.150	405	6.3×11	0.065	760
220	6.3×11	0.065	760	8×11.5	0.060	850
330	8×11.5	0.060	850	8×11.5	0.036	1000
470	8×11.5	0.036	1000	8×16 10×12.5	0.028 0.027	1250 1430
680	8×16 10×12.5	0.028 0.027	1250 1430	8×20 10×16	0.020 0.020	1600 1820
820	10×12.5	0.025	1500	10×16	0.018	2000
1000	8×20 10×16	0.020 0.020	1600 1820	10×20 12.5×16	0.014 0.018	2180 2200
1200	10×20 12.5×16	0.014 0.018	2180 2200	10×25	0.013	2360
1500	10×25	0.013	2360	12.5×20	0.013	2480
2200	12.5×20	0.013	2480	12.5×25	0.012	2900
3300	12.5×25	0.012	3200			

WV μF	25			35			50		
	33				5×11	0.150	405		
47	5×11	0.150	405	6.3×11	0.100	550	6.3×11	0.140	405
56	6.3×11	0.065	760	6.3×11	0.065	760	6.3×11	0.140	580
100	8×11.5	0.060	850	8×11.5	0.050	850	8×11.5	0.072	760
150				8×11.5	0.036	1000	10×12.5	0.061	1030
220	8×11.5	0.036	1000	8×16 10×12.5	0.028 0.027	1250 1430	10×16	0.042	1430
270				8×20	0.020	1600	12.5×16	0.042	1700
330	8×16 10×12.5	0.028 0.027	1250 1430	10×16	0.020	1820	10×20	0.030	1820
470	8×20 10×16	0.020 0.020	1600 1820	10×20 12.5×16	0.014 0.018	2180 2200	12.5×20	0.027	2360
560				10×25	0.015	2360	12.5×25	0.020	2500
680	10×20 12.5×16	0.014 0.018	2180 2200	12.5×20	0.015	2480			
820	10×25	0.013	2360						
1000	12.5×20	0.013	2480	12.5×25	0.015	2900			
1200	12.5×20	0.013	2600						
1500	12.5×25	0.012	2900						

