Data Sheet

Customer:

Product: SMD Aluminum Electrolytic Capacitors – EZV Series

Size : 4x5.5mm ~ 18x21.5mm

Issued Date: 25-Dec.-2018

Edition: Ver. 3

Record of change

Date	Ver.	Description	Page
15-May-2016	1		
07-Sep-2017	2	Added size G on some items	2
22-May-2018	3	Added new sizes	2

HITANO ENTERPRISE CORP.

7F-7, No. 3, Wu Chuan 1st Road, New Taipei Industrial Park,
New Taipei City, TAIWAN, R.O.C.
Tel: +886 2 2299 1331 (Rep.)
Fax: +886 2 2298 2466, 2298 2969

Prepared by	Checked by	Approved by	Accepted by (customer)
22-May-2018	22-May-2018	22-May-2018	
Andy Hsu	***Hwa Wu***	***Hwa Wu***	

HITANO
ENTERPRISE CORP. ®

EZV SERIES

- SMD Low Impedance Type. Reflow Soldering is available.
- 4~18ϕ, 105℃, 2000 ~ 5000 hours load life., Rohs compliant
- Available For High Density Mounting

Characteristics

Voltage Range	6.3 to 100 VDC								
Capacitance Range	1.0 to 6800uF								
Temperature Range	-55 to +105℃								
Capacitance Tolerance	+/-20% (at 20℃, 120Hz)								
Leakage Current	I≤0.01CV or 3uA, whichever is greater, 2 minutes after Rated Voltage applied, where C = Rated Capacitance, V = Rated DC working voltage								
Dissipation Factor (tanδ) Max (at 20℃, 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100
	D.F.(tanδ)	0.30	0.26	0.22	0.16	0.13	0.10	0.08	0.07
Stability at Low Temperature (at 120Hz)	Rated Voltage (V)	6.3	10	16	25	35	50	63	100
	Z-25℃/Z 20℃	4	3	2	2	2	2	2	2
	Z-55℃/Z 20℃	8	5	4	3	3	3	3	3
Load Life After the rated voltage has been applied for 2000~5000 hours at 105℃	2000hrs for D≦6.3mm, 5000hrs for D≧8mm		Capacitance change			Within ±30% of initial value			
			D.F. (tanδ)			300% or less of initial specified value			
			Leakage current			Less than initial specified value			
Shelf Life	After storage for 1000 hours at 105℃, with no voltage applied and being stabilized at +20℃, Capacitor shall meet the limit specified in load life.								

Diagram of dimensions

SIZE	Dϕ	L	A	B	C	W	P±0.2
A	4	5.5±0.2	4.3	4.3	5.1	0.5~0.8	1.0
B	5	5.5±0.2	5.3	5.3	5.9	0.5~0.8	1.5
C	6.3	5.5±0.2	6.6	6.6	7.2	0.5~0.8	2.0
C8	6.3	7.7±0.3	6.6	6.6	7.2	0.5~0.8	2.0
D	8	6.5±0.3	8.4	8.4	9.0	0.5~0.8	2.3
E	8	10.5±0.3	8.4	8.4	9.0	0.7~1.1	3.1
F	10	10.5±0.3	10.4	10.4	11.0	0.7~1.3	4.5
G	12.5	14±0.3	13.5	13.5	15.0	1.1~1.4	4.5
H	12.5	16±0.3	13.0	13.0	15.0	1.1~1.4	4.5
I	16	16.5±0.5	17.0	17.0	18.0	1.1~1.4	6.4
J	16	21.5±0.5	17.0	17.0	18.0	1.1~1.4	6.4
K	18	16.5±0.5	19.0	19.0	20.0	1.1~1.4	6.4
L	18	21.5±0.5	19.0	19.0	20.0	1.1~1.4	6.4

Fig. 1

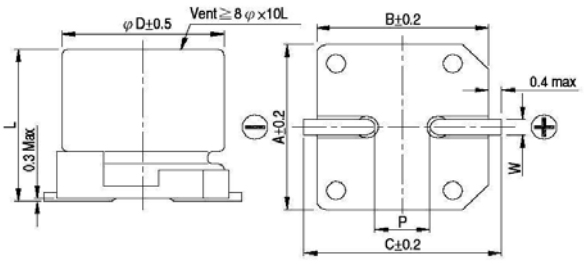
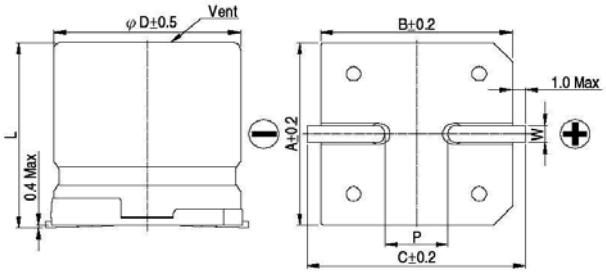


Fig. 2



Size A~F refer to Fig. 1

Size G~L refer to Fig. 2

Multiplier for Ripple Current vs Frequency

Frequency(Hz)	60(50)	120	1K	≧10K
Multiplier	0.60	0.70	0.85	1.00

Part Numbering System

EZV	□ □ □	□	□ □	R	□
Series	Capacitance	Tolerance	Rated Voltage	Package	Case Size

HITANO
ENTERPRISE CORP. ®

EZV SERIES

Case size & Maximum Ripple Current (mA rms 105℃ 100KHz) & Imp. (Ω 20℃ 100KHZ)

Cap. \ WV	6.3			10			16			25		
uF	Size	RC	Imp.	Size	RC	Imp.	Size	RC	Imp.	Size	RC	Imp.
1												
2.2												
3.3												
4.7												
10							A	80	1.35	A	80	1.35
22				A	80	1.80	A, B	80/150	0.70/0.76	B	150	0.76
33	A	80	1.35	B	150	0.76	C	230	0.44	C	230	0.44
47	B	150	0.76	C	230	0.44	C	230	0.44	C	230	0.44
100	C	230	0.44	C	230	0.44	C, D	230/280	0.44/0.36	C8, E	280/450	0.34/0.17
150	C	230	0.44	C	230	0.44	C8	280	0.36	E	450	0.17
220	C, C8	230/280	0.44/0.32	C8	280	0.34	C8, E	280/450	0.34/0.17	E, F	450/670	0.17/0.09
330	C8, E	280/450	0.34/0.17	E, F	450/510	0.17/0.15	E, F	450/510	0.17/0.15	E, F	450/670	0.17/0.09
470	E	450	0.17	E, F	450/670	0.17/0.09	E, F	450/670	0.17/0.09	F	670	0.09
680	E	450	0.17	F	670	0.09	F	670	0.09	G	820	0.07
1000	E, F	450/553	0.17/0.09	F	670	0.09	G	820	0.07	G, H	950/1150	0.066/0.06
1500	F	670	0.09	G	820	0.07	G, H	950/1150	0.066/0.06	I	1260	0.054
2200	G	820	0.07	G, H	950/1150	0.066/0.06	I	1260	0.054	I	1260	0.054
3300	G, H	950/1150	0.066/0.06	I	1260	0.054	I, J	1260/1630	0.054/0.038	J, K	1630/1500	0.038/0.048
4700	I	1260	0.054	I	1260	0.054	J, K	1630/1500	0.038/0.048			
6800	J, K	1630/1500	0.038/0.048	J, K	1630/1500	0.038/0.048						

Cap. \ WV	35			50			63			100		
uF	Size	RC	Imp.	Size	RC	Imp.	Size	RC	Imp.	Size	RC	Imp.
1				A	60	2.9						
2.2				A	60	2.9						
3.3				A	60	2.9						
4.7	A	80	1.35	B	85	1.52	B	70	1.90			
10	B	150	0.76	C	165	0.88	C	130	1.20			
22	B, C	150/230	0.76/0.44	C	165	0.88	C8	150	0.90	E	130	1.30
33	C	230	0.44	C8, E	185/300	0.68/0.34	E	280	0.50	F	200	0.70
47	C, D	230/280	0.44/0.32	C8, E	185/369	0.68/0.34	E	280	0.50	F	200	0.70
100	E, F	450/670	0.17/0.14	E, F	369/553	0.34/0.18	F	450	0.25	G	450	0.32
150	E	450	0.17	F	553	0.18	G	700	0.15	H	550	0.26
220	E, F	450/670	0.17/0.09	F	670	0.18	G	700	0.15	I	650	0.17
330	F	670	0.09	G	650	0.12	I	900	0.082	J	850	0.15
470	G, H	950/1150	0.066/0.06	I	1000	0.073	I	900	.0.082	L	950	0.15
680	G, H	950/1150	0.066/0.06	I	1000	0.073	J	1150	0.080			
1000	I	1260	0.054	K	1500	0.066	L	1250	0.06			
1500	J	1500	0.048	L	1750	0.038						
2200	L	1750	0.044									