

Jamicon Series : VP

Teapo Series : VP Standard Series



- Endurance:105°C,2000hrs
- Recommended Applications: Standard SMD type product
- Corresponding product to RoHS

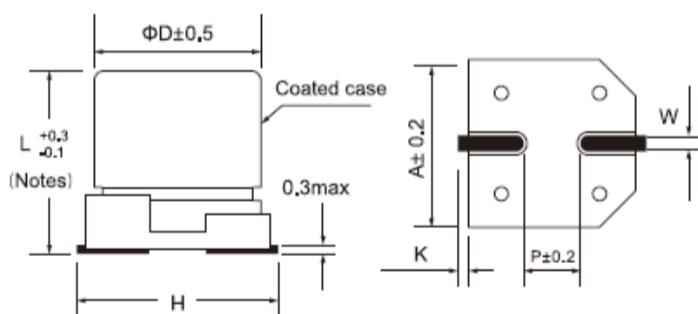
■ Specifications

Item	Characteristics	
Category Temperature Range	-55 ~ +105°C	
Rated Voltage Range	2.5~25VDC	
Rated Capacitance Range	22~ 1500 μF	
Capacitance Tolerance	± 20 % (120Hz , 20°C)	
Surge Voltage	Rated voltage (V) x 1.15	
Leakage Current (20°C)	Less than or equal to the value of Table , (After rated voltage applied for 2 minutes) I : Leakage Current (μ A) C : Capacitance(μ F) V : Rated Voltage Range(VDC)	
Dissipation Factor (MAX) (tan δ) (120Hz ,20°C)	WV	2.5~25
	tan δ	0.12
Temperature characteristic Impedance ratio (MAX)	Z(100KHz) / WV	2.5 ~ 25V
	Z-25°C / Z+20°C	≤ 1.15
	Z-55°C / Z+20°C	≤ 1.25
Endurance	After applying rated voltage for 2000 hours at 105°C , the capacitor shall meet the following requirement °	
	Appearance	No significant damage
	Capacitance Change	Within ±20% of the initial value
	Dissipation Factor	Not more than 150% of the initial specified value
	Equivalent Series Resistance	Not more than 150% of the initial specified value
Humidity Test	after subjecting 90 to 95% RH for 1000 hours at 60°C , the capacitors shall meet the requirement as Endurance °	
	Capacitance Change	Within ±10% of the initial value
	Dissipation Factor	Not more than 130% of the initial specified value
	Equivalent Series Resistance	Not more than 130% of the initial specified value
	Leakage Current	Not more than the initial specified value
Resistance to Soldering Heat *	Capacitance Change	Within ±10% of the initial value
	Dissipation Factor	Not more than 130% of the initial specified value
	Equivalent Series Resistance	Not more than 130% of the initial specified value
	Leakage Current	Not more than the initial specified value

*For any doubt about measured values, measure the leakage current again after the following voltage treatment °

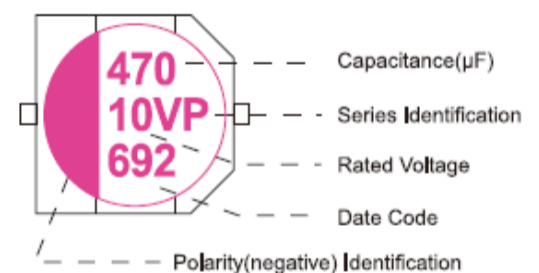
Voltage treatment: Applying DC rated voltage to the capacitors for 2 hours at 105°C °

■ Diagram of Dimensions



(Notes) Φ8 ~ Φ10&6.3X7.7=L±0.3

■ Marking : case with red printing



SIZE	ΦD x L	A	H(Max)	W	P	K
CA1	5x5.8	5.3	6.5	0.65±0.15	1.5±0.2	0.35+0.15/-0.2
EA1	6.3x5.8	6.6	7.8	0.65±0.15	1.8±0.2	0.35+0.15/-0.2
EA4	6.3x7.7	6.6	7.8	0.65±0.15	1.8±0.2	0.35+0.15/-0.2
GA6	8x10.4	8.3	10	0.9±0.2	3.1±0.2	0.7±0.2
HA5	10x10.2	10.3	12	0.9±0.2	4.6±0.2	0.7±0.2
HA8	10x12.2	10.3	12	0.9±0.2	4.6±0.2	0.7±0.2

■ Multiplier for Ripple Current

Frequency(HZ)	120 ≤ F < 1K	1K ≤ F < 10K	10K ≤ F < 100K	100K ≤ F ≤ 500K
Coefficient	0.05	0.30	0.70	1.00

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■Dimensions, Rated Ripple Current, Equivalent Series Resistance

Rated (Surge) Voltage(V)	Capacitance (μ F)	SIZE Φ DxL(mm)	RIPPLE (mA/rms,105 $^{\circ}$ C 100KHz)	ESR (m Ω ,20 $^{\circ}$ C 100KHz)	LC (μ A max/2min)	Rated (Surge) Voltage(V)	Capacitance (μ F)	SIZE Φ DxL(mm)	RIPPLE (mA/rms,105 $^{\circ}$ C 100KHz)	ESR (m Ω ,20 $^{\circ}$ C 100KHz)	LC (μ A max/2min)	
2.5 (2.88)	180	5x5.8	1970	30	300	10(11.5)	150	6.3x7.7	2560	27	300	
		6.3x5.8	2200	25	300		390	8x10.4	3020	22	780	
	220	6.3x5.8	2500	25	300		470	10x10.2	3500	14	940	
		6.3x7.7	2720	23	300			10x12.2	5300	12	940	
	470	6.3x7.7	2720	23	300		560	10x12.2	5300	12	1120	
	1000	8x10.4	3950	18	500		1000	10x12.2	5300	13	2000	
	1200	10x10.2	4000	12	600		16(18.4)	22	5x5.8	1210	90	300
	1500	10x10.2	4000	13	750			33	6.3x5.8	2050	37	300
10x12.2		5500	12	750	39	6.3x5.8		2050	37	300		
100		6.3x5.8	2450	26	300	47		6.3x5.8	1600	50	300	
4(4.6)	150	6.3x5.8	2450	26	300	82		6.3x7.7	2420	30	300	
	330	6.3x7.7	2650	25	300	100		6.3x7.7	2420	30	320	
	560	8x10.4	3950	18	448	120		6.3x7.7	2420	30	384	
	820	8x10.4	3950	18	656	150		8x10.4	3490	23	480	
		10x12.2	5500	10	656	180	8x10.4	3490	23	576		
	1200	10x10.2	4000	12	960	220	8x10.4	3490	23	704		
		10x12.2	5500	10	960	270	10x12.2	5050	14	704		
	6.3(7.25)	47	5x5.8	1380	35	300	330	10x10.2	3100	16	1056	
68		6.3x5.8	2400	27	300	330	10x12.2	5050	14	1056		
82		6.3x5.8	2400	27	300	390	8x10.4	3000	23	1248		
100		5x5.8	1380	35	300	470	10x10.2	3100	16	1504		
		6.3x5.8	2400	27	300		10x12.2	5050	14	1504		
120		6.3x5.8	2400	27	300	560	10x12.2	5050	14	1792		
220		6.3x5.8	2400	27	300	680	10x12.2	5050	14	2176		
		6.3x7.7	2650	25	300	820	10x12.2	5050	14	2624		
330		6.3x5.8	2400	27	415	20(23)	22	6.3x5.8	1650	50	300	
		6.3x7.7	2650	25	415		47	6.3x7.7	2000	45	300	
470		6.3x7.7	2650	25	592		100	8x10.4	3320	24	480	
680		8x10.4	3610	21	592	150	10x12.2	4220	21	600		
		8x10.4	3610	21	857	25(28.75)	22	6.3x5.8	900	65	300	
10x10.2		3650	12	857	27		6.3x7.7	1800	50	300		
		8x10.4	3610	21	1033		47	6.3x5.8	1300	65	300	
10x12.2		3650	12	1033	68		6.3x7.7	1800	45	300		
		5500	10	1033			68	6.3x7.7	1800	45	340	
820		8x10.4	3610	21	1260		100	8x10.4	3320	35	500	
	10x12.2	5500	10	1260	150		8x10.4	3320	35	750		
10(11.5)	22	5x5.8	1270	40	300		180	10x10.2	3100	30	900	
		5x5.8	1270	40	300	220	8x10.4	3320	35	1100		
	47	5x5.8	1270	40	300	270	10x10.2	3320	30	1350		
		6.3x5.8	2250	31	300	330	10x12.2	3500	28	1650		
	56	6.3x5.8	2250	31	300							
	100	6.3x5.8	2250	31	300							
6.3x7.7		2560	27	300								