

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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•Radial lead type:

●Long life of 3000 hours at 105°C.

Radial Lead Type, Long Life Assurance

•High voltage (to 100V), Low ESR, High ripple current.

Lead free flow soldering condition correspondence. Compliant to the RoHS directive (2011/65/EU).





















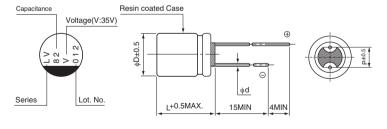


■ Specifications

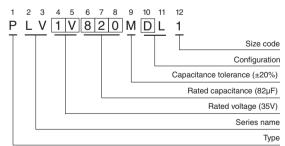
Item	Performance Characteristics								
Category Temperature Range	−55 to +105°C								
Rated Voltage Range	16 to 100V								
Rated Capacitance Range	6.8 to 470μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 20°C								
ESR (% 1)	Less than or equal to the specified value at 100kHz, 20°C								
Leakage Current (%2)	Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20°C								
Temperature Characteristics (Max.Impedance Ratio)	$Z+105^{\circ}C / Z+20^{\circ}C \le 1.25$ (100kHz) $Z-55^{\circ}C / Z+20^{\circ}C \le 1.25$								
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 3000 hours at 105°C.	Capacitance change tan δ ESR (※1) Leakage current (※2)	Within ± 20% of the initial capacitance value (**3) 150% or less than the initial specified value 150% or less than the initial specified value Less than or equal to the initial specified value						
Damp Heat (Steady State)	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60°C, 90% RH.	Capacitance change tan δ ESR (※1) Leakage current (※2)	Within ± 20% of the initial capacitance value (*3) 150% or less than the initial specified value 150% or less than the initial specified value Less than or equal to the initial specified value						
Resistance to Soldering Heat	and poart tomporators at 200 C for 10 cocords of 1000, the		Within ± 10% of the initial capacitance value (*3) 130% or less than the initial specified value 130% or less than the initial specified value Less than or equal to the initial specified value						
Marking	Navy blue print on the case top								

- *1 ESR should be measured at both of the terminal ends closest to the capacitor body.
- *2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.
- *3 Initial value: The value before test of examination of resistance to soldering.

■ Dimensions



Type numbering system (Example: 35V 82µF)



		(mm)
φ8 × 9L	φ8 × 12L	φ10 × 13L

Size	φ8 × 9L	φ8 × 12L	φ10 × 13L		
φD	8.0	8.0	10.0		
L	L 8.5		12.5		
Р	3.5	3.5	5.0		
φd	0.6	0.6	0.6		

Voltage									
	V	16	20	25	35	50	63	80	100
	Code	С	D	Е	V	Н	J	K	2A

Please refer to page 20 about the end seal configuration.





■Standard Ratings

Rated Voltage (V) code	Surge Voltage (V)	Rated Capacitance (µF)	Case Size φD × L (mm)	tan δ	Leakage Current (μΑ)	ESR (mΩ) (at 100kHz 20°C)	Rated Ripple (mArms)	Part Number
		220	8×9	0.12	704	26	2100	PLV1C221MCL1
16 (1C)	18.4	270	8 × 12	0.12	864	24	2500	PLV1C271MDL1
		470	10 × 13	0.12	1504	23	2900	PLV1C471MDL1
		150	8×9	0.12	600	27	2000	PLV1D151MCL1
20 (1D)	23.0	220	8 × 12	0.12	880	25	2400	PLV1D221MDL1
()		330	10×13	0.12	1320	24	2800	PLV1D331MDL1
		120	8×9	0.12	600	28	2000	PLV1E121MCL1
25 (1E)	28.7	150	8 × 12	0.12	750	26	2400	PLV1E151MDL1
(/		270	10 × 13	0.12	1350	25	2800	PLV1E271MDL1
	40.2	56	8×9	0.12	392	29	1900	PLV1V560MCL1
35 (1V)		82	8 × 12	0.12	574	27	2300	PLV1V820MDL1
(,		150	10 × 13	0.12	1050	26	2700	PLV1V151MDL1
	57.5	33	8×9	0.12	330	32	1900	PLV1H330MCL1
50 (1H)		39	8 × 12	0.12	390	29	2200	PLV1H390MDL1
(,		68	10 × 13	0.12	680	28	2600	PLV1H680MDL1
	72.4	22	8×9	0.12	277	35	1800	PLV1J220MCL1
63 (1J)		27	8 × 12	0.12	340	33	2100	PLV1J270MDL1
		47	10 × 13	0.12	592	29	2600	PLV1J470MDL1
	92	10	8×9	0.12	160	40	1700	PLV1K100MCL1
80 (1K)		12	8 × 12	0.12	192	38	1900	PLV1K120MDL1
		22	10 × 13	0.12	352	35	2300	PLV1K220MDL1
	115	6.8	8×9	0.12	136	45	1600	PLV2A6R8MCL1
100 (2A)		10	8×12	0.12	200	42	1800	PLV2A100MDL1
(=, -,		18	10×13	0.12	360	38	2200	PLV2A180MDL1

Rated ripple current (mArms) at 105°C 100kHz

<sup>Please refer to page 20, 21, 22 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.</sup>