

PZ

- Extra low ESR, Extra high ripple current
- Endurance 2000 hours at 105°C
- Comply with the RoHS

SPECIFICATIONS

Category Temperature Range	-55+105°C								
Voltage Range	2.5-25V.DC								
Capacitance Tolerance	±20%(120Hz,20°C)								
Leakage Current	≤0.15CV(μA) (2 minutes)								
Dissipation Factor (120Hz, 20°C)	The value on the property table								
Equivalent Series Resistance (100KHz, 20°C)	The value on the property table								
Endurance	In an environment of +105°C, apply the operating voltage with ripple current for 2000 hours, and after 16 hours of recovery, the product performance meets the following requirements: <table border="1"> <tr> <td>Capacitance Change</td><td>Within ±20% of initial measured</td></tr> <tr> <td>Dissipation Factor</td><td>≤ 150% of initial specified value</td></tr> <tr> <td>ESR Value</td><td>≤ 150% of initial specified value</td></tr> <tr> <td>Leakage Current</td><td>≤ initial specified value</td></tr> </table>	Capacitance Change	Within ±20% of initial measured	Dissipation Factor	≤ 150% of initial specified value	ESR Value	≤ 150% of initial specified value	Leakage Current	≤ initial specified value
Capacitance Change	Within ±20% of initial measured								
Dissipation Factor	≤ 150% of initial specified value								
ESR Value	≤ 150% of initial specified value								
Leakage Current	≤ initial specified value								
Steady State Damp Heat Test	In an environment of +60°C and relative humidity of 90%-95%, placed for 2000 hours, and after 16 hours of recovery, the product performance meets the following requirements: <table border="1"> <tr> <td>Capacitance Change</td><td>Within ±20% of initial measured</td></tr> <tr> <td>Dissipation Factor</td><td>≤ 150% of initial specified value</td></tr> <tr> <td>ESR Value</td><td>≤ 150% of initial specified value</td></tr> <tr> <td>Leakage Current</td><td>≤ initial specified value</td></tr> </table>	Capacitance Change	Within ±20% of initial measured	Dissipation Factor	≤ 150% of initial specified value	ESR Value	≤ 150% of initial specified value	Leakage Current	≤ initial specified value
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Dissipation Factor	≤ 150% of initial specified value								
ESR Value	≤ 150% of initial specified value								
Leakage Current	≤ initial specified value								

DRAWING & DRAWING & DIMENSIONS (Unit: mm)



ΦD	6.3	8	10
$F \pm 0.5$	2.5	3.5	5.0
$\Phi d \pm 0.05$	0.6	0.6	0.6
L	$(L < 20) \pm 1.0$		
D	$(D < 20) \pm 0.5$		

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT

Frequency (Hz)	120Hz≤f<1KHz	1KHz≤f<10KHz	10KHz≤f<100KHz	100KHz≤f<500KHz
Coefficient	0.05	0.30	0.70	1.00

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NOMINAL CAPACITANCE, RATED VOLTAGE & DIMENSIONS

Rated Voltage (V)	Nominal Capacitance (uF)	Dimensions (mm)	ESR (mΩ)	Ripple Current (mA)	Dissipation	Part Number
2.5V (0E)	560	6.3X8	11	4500	0.08	PZ0E561M6L08CYH00000
		8X8	9	5200	0.08	PZ0E561M0808DYH00000
	680	6.3X8	11	4500	0.08	PZ0E681M6L08CYH00000
		8X8	9	5200	0.08	PZ0E681M0808DYH00000
	820	6.3X8	11	4500	0.08	PZ0E821M6L08CYH00000
		8X8	9	5200	0.08	PZ0E821M0808DYH00000
	1000	8X8	9	5200	0.08	PZ0E102M0808DYH00000
		8X11.5	9	5200	0.08	PZ0E102M081BDYH00000
	1200	8X8	9	5200	0.08	PZ0E122M0808DYH00000
		8X11.5	9	5200	0.08	PZ0E122M081BDYH00000
	1500	8X11.5	9	5200	0.08	PZ0E152M081BDYH00000
	2000	10X12.5	9	5600	0.08	PZ0E202M101CEYH00000
	2500	10X12.5	9	5600	0.08	PZ0E252M101CEYH00000
	2700	10X12.5	9	5600	0.08	PZ0E272M101CEYH00000
4V (0G)	560	6.3X8	11	4500	0.08	PZ0G561M6L08CYH00000
		8X8	9	5200	0.08	PZ0G561M0808DYH00000
	680	8X8	9	5200	0.08	PZ0G681M0808DYH00000
		8X11.5	9	5200	0.08	PZ0G681M081BDYH00000
	820	8X8	9	5200	0.08	PZ0G821M0808DYH00000
		8X11.5	9	5200	0.08	PZ0G821M081BDYH00000
	1000	8X8	9	5200	0.08	PZ0G102M0808DYH00000
		8X11.5	9	5200	0.08	PZ0G102M081BDYH00000
	1200	8X11.5	9	5200	0.08	PZ0G122M081BDYH00000
		10X12.5	9	5600	0.08	PZ0G122M101CEYH00000
	1500	8X11.5	9	5200	0.08	PZ0G152M081BDYH00000
		10X12.5	9	5600	0.08	PZ0G152M101CEYH00000
	2000	10X12.5	9	5600	0.08	PZ0G202M101CEYH00000
	2500	10X12.5	9	5600	0.08	PZ0G252M101CEYH00000
6.3V (0J)	270	6.3X8	11	4500	0.08	PZ0J271M6L08CYH00000
	330	6.3X8	11	4500	0.08	PZ0J331M6L08CYH00000
	390	6.3X8	11	4500	0.08	PZ0J391M6L08CYH00000
		8X8	9	5200	0.08	PZ0J391M0808DYH00000
	470	6.3X8	11	4500	0.08	PZ0J471M6L08CYH00000
		8X8	9	5200	0.08	PZ0J471M0808DYH00000
	560	6.3X8	11	4500	0.08	PZ0J561M6L08CYH00000
		8X8	9	5100	0.08	PZ0J561M0808DYH00000
	680	6.3X8	11	4500	0.08	PZ0J681M6L08CYH00000
		8X8	9	5100	0.08	PZ0J681M0808DYH00000
	820	6.3X11	9	4500	0.08	PZ0J821M6L11CYH00000
		8X8	9	5200	0.08	PZ0J821M0808DYH00000
		10X12.5	9	5600	0.08	PZ0J821M101CEYH00000
	1000	8X8	9	5200	0.08	PZ0J102M0808DYH00000
		8X11.5	9	5200	0.08	PZ0J102M081BDYH00000
		10X12.5	9	5600	0.08	PZ0J102M101CEYH00000
	1200	8X11.5	9	5200	0.08	PZ0J122M081BDYH00000
		10X12.5	9	5600	0.08	PZ0J122M101CEYH00000
	1500	8X11.5	9	5200	0.08	PZ0J152M081BDYH00000
		10X12.5	9	5600	0.08	PZ0J152M101CEYH00000
	2000	10X12.5	9	5600	0.08	PZ0J202M101CEYH00000

Rated ripple current: (105℃,100KHz); ESR: (20℃,100KHz)

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NOMINAL CAPACITANCE, RATED VOLTAGE & DIMENSIONS

Rated Voltage (V)	Nominal Capacitance (uF)	Dimensions (mm)	ESR (mΩ)	Ripple Current (mA)	Dissipation	Part Number
10V (1A)	220	6.3X8	11	4500	0.08	PZ1A221M6L08CYH00000
	270	6.3X8	11	4500	0.08	PZ1A271M6L08CYH00000
	330	6.3X8	11	4500	0.08	PZ1A331M6L08CYH00000
		8X8	9	5200	0.08	PZ1A331M0808DYH00000
	390	6.3X11	9	4500	0.08	PZ1A391M6L11CYH00000
		8X8	9	5200	0.08	PZ1A391M0808DYH00000
	470	6.3X11	9	4500	0.08	PZ1A471M6L11CYH00000
		8X8	9	5200	0.08	PZ1A471M0808DYH00000
	560	8X8	9	5200	0.08	PZ1A561M0808DYH00000
		8X11.5	9	5200	0.10	PZ1A561M081BDYH00000
	680	8X8	9	5200	0.10	PZ1A681M0808DYH00000
		8X11.5	9	5200	0.10	PZ1A681M081BDYH00000
	820	8X8	9	5200	0.10	PZ1A821M0808DYH00000
		8X11.5	9	5200	0.10	PZ1A821M081BDYH00000
		10X12.5	9	5600	0.10	PZ1A821M101CEYH00000
	1000	8X11.5	9	5200	0.10	PZ1A102M081BDYH00000
		10X12.5	9	5600	0.10	PZ1A102M101CEYH00000
	1200	10X12.5	9	5600	0.10	PZ1A122M101CEYH00000
	1500	10X12.5	9	5600	0.10	PZ1A152M101CEYH00000
16V (1C)	47	6.3X8	18	2900	0.10	PZ1C470M6L08CYH00000
	68	6.3X8	18	2900	0.10	PZ1C680M6L08CYH00000
	82	6.3X8	18	2900	0.10	PZ1C820M6L08CYH00000
	100	6.3X8	15	2900	0.10	PZ1C101M6L08CYH00000
	150	6.3X8	15	2900	0.10	PZ1C151M6L08CYH00000
		8X8	12	4100	0.10	PZ1C151M0808DYH00000
	180	6.3X8	15	2900	0.10	PZ1C181M6L08CYH00000
		6.3X11	13	3500	0.10	PZ1C181M6L11CYH00000
		8X8	12	4100	0.10	PZ1C181M0808DYH00000
	220	6.3X11	13	3500	0.12	PZ1C221M6L11CYH00000
		8X8	12	4500	0.12	PZ1C221M0808DYH00000
		8X11.5	11	4800	0.12	PZ1C221M081BDYH00000
	270	6.3X11	13	3500	0.12	PZ1C271M6L11CYH00000
		8X8	12	4500	0.12	PZ1C271M0808DYH00000
		8X11.5	11	4800	0.12	PZ1C271M081BDYH00000
	330	8X8	12	4500	0.12	PZ1C331M0808DYH00000
		8X11.5	11	4800	0.12	PZ1C331M081BDYH00000
		10X12.5	11	5100	0.12	PZ1C331M101CEYH00000
	470	8X11.5	11	4800	0.12	PZ1C471M081BDYH00000
		10X12.5	11	5100	0.12	PZ1C471M101CEYH00000
	560	10X12.5	11	5100	0.12	PZ1C561M101CEYH00000
	680	10X12.5	11	5100	0.12	PZ1C681M101CEYH00000
	820	10X12.5	11	5100	0.12	PZ1C821M101CEYH00000

Rated ripple current: (105℃,100KHz); ESR: (20℃,100KHz)

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NOMINAL CAPACITANCE, RATED VOLTAGE & DIMENSIONS

Rated Voltage (V)	Nominal Capacitance (uF)	Dimensions (mm)	ESR (mΩ)	Ripple Current (mA)	Dissipation	Part Number
25V (1E)	22	6.3X8	25	2100	0.10	PZ1E220M6L08CYH00000
	33	6.3X8	25	2100	0.10	PZ1E330M6L08CYH00000
	39	6.3X8	25	2100	0.10	PZ1E390M6L08CYH00000
	47	6.3X8	25	2100	0.10	PZ1E470M6L08CYH00000
		8X8	18	3500	0.10	PZ1E470M0808DYH00000
	68	6.3X11	20	2900	0.10	PZ1E680M6L11CYH00000
		8X8	18	3500	0.12	PZ1E680M0808DYH00000
	82	6.3X11	20	2900	0.10	PZ1E820M6L11CYH00000
		8X8	18	3500	0.12	PZ1E820M0808DYH00000
	100	6.3X11	20	2900	0.12	PZ1E101M6L11CYH00000
		8X8	18	3500	0.12	PZ1E101M0808DYH00000
		8X11.5	15	4100	0.12	PZ1E101M081BDYH00000
	150	8X11.5	15	4100	0.12	PZ1E151M081BDYH00000
		10X12.5	15	4900	0.12	PZ1E151M101CEYH00000
	180	10X12.5	15	4900	0.12	PZ1E181M101CEYH00000
	220	10X12.5	15	4900	0.12	PZ1E221M101CEYH00000
	270	10X12.5	15	4900	0.12	PZ1E271M101CEYH00000
	330	10X12.5	15	4900	0.12	PZ1E331M101CEYH00000

Rated ripple current: (105°C,100KHz): ESR: (20°C,100KHz)