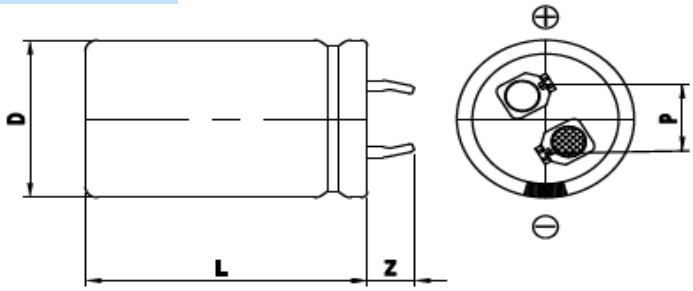
3.0V 100F (2245)

Features

EDLC (Electric Double Layer Capacitor)

- High Power Density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant

Drawing



D (Φ)	22 +1.5 Max
L (mm)	45 ±2.0
Z (mm)	6.0 ±1.0
P (mm)	10.0 ±0.2

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V_R)		3.0V	
Operating Temperature		-40 ~ +65℃	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V_R loaded under +65℃, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
		85℃ Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	△C	≤ 30% of initial value	
	ESR	≤ 2 times of specified value	
	Method	Cycle of Charge/discharge from V_R to 1/2V_R	
Shelf Life		3 Years No Electrical Charge, Temperature below 25℃ (△C : ≤ 10% of initial value / △ESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (㎃, 72hr)	Size (mm)
			AC(1㎑)	DC			D x L
VEC 3R0 107 QG	3.0	100	6.0	9.0	78.0	0.300	22 x 45

*** Max. Current** : 1 sec. discharge to 1/2V_R

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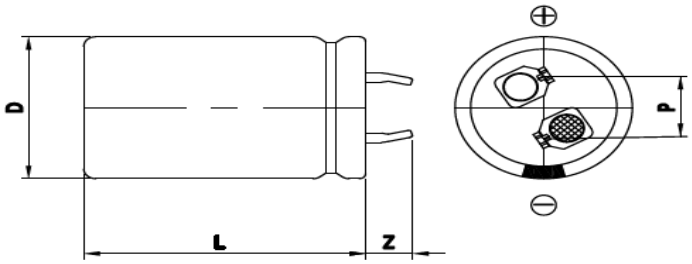
3.0V 220F (2570)

Features

EDLC (Electric Double Layer Capacitor)

- High Power Density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant

Drawing



D (Φ)	25 +1.5 Max
L (mm)	70 ±2.0
Z (mm)	6.0 ±1.0
P (mm)	10.0 ±0.2

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V_R)		3.0V	
Operating Temperature		-40 ~ +65℃	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V_R loaded under +65℃, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
		85℃ Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	△C	≤ 30% of initial value	
	ESR	≤ 2 times of specified value	
	Method	Cycle of Charge/discharge from V_R to 1/2V_R	
Shelf Life		3 Years No Electrical Charge, Temperature below 25℃ (△C : ≤ 10% of initial value / △ESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (㎃, 72hr)	Size (mm)
			AC(1㎑)	DC			D x L
VEC 3R0 227 QG	3.0	220	5.0	7.5	125.0	0.660	25 x 70

*** Max. Current** : 1 sec. discharge to 1/2V_R

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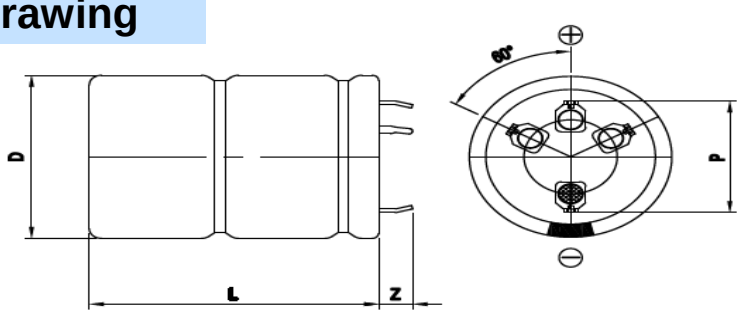
3.0V 360F (3562)

Features

EDLC (Electric Double Layer Capacitor)

- High Power Density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant

Drawing



D (Φ)	35 +1.5 Max
L (mm)	62 ±2.0
Z (mm)	6.0 ±1.0
P (mm)	23.0 ±0.2

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V_R)		3.0V	
Operating Temperature		-40 ~ +65℃	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V_R loaded under +65℃, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
		85℃ Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	△C	≤ 30% of initial value	
	ESR	≤ 2 times of specified value	
	Method	Cycle of Charge/discharge from V_R to 1/2V_R	
Shelf Life		3 Years No Electrical Charge, Temperature below 25℃ (△C : ≤ 10% of initial value / △ESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (㎃, 72hr)	Size
			AC(1㎑)	DC			D x L
VEC 3R0 367 QG	3.0	360	3.0	3.2	250.0	1.080	35 x 62

*** Max. Current** : 1 sec. discharge to 1/2V_R

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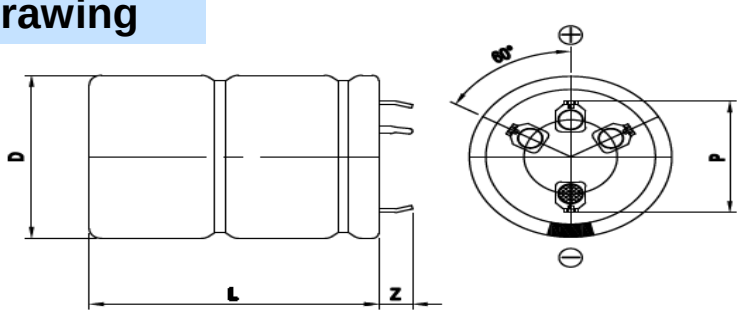
3.0V 400F (3572)

Features

EDLC (Electric Double Layer Capacitor)

- High Power Density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant

Drawing



D (Φ)	35 +1.5 Max
L (mm)	72 ±2.0
Z (mm)	6.0 ±1.0
P (mm)	23.0 ±0.2

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V_R)		3.0V	
Operating Temperature		-40 ~ +65℃	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V_R loaded under +65℃, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
		85℃ Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	△C	≤ 30% of initial value	
	ESR	≤ 2 times of specified value	
	Method	Cycle of Charge/discharge from V_R to 1/2V_R	
Shelf Life		3 Years No Electrical Charge, Temperature below 25℃ (△C : ≤ 10% of initial value / △ESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (㎃, 72hr)	Size
			AC(1㎑)	DC			D x L
VEC 3R0 407 QG	3.0	400	3.0	3.2	263.0	1.200	35 x 72

*** Max. Current** : 1 sec. discharge to 1/2V_R

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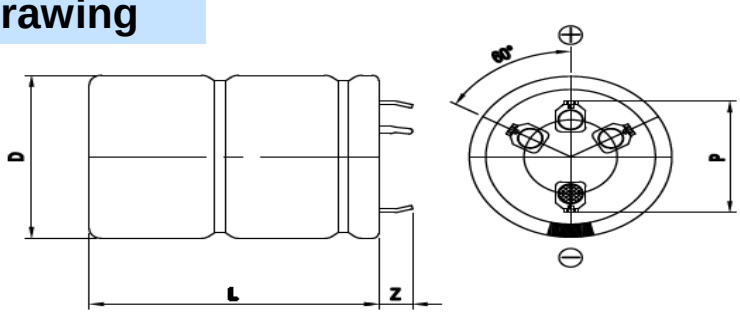
3.0V 500F (3570)

Features

EDLC (Electric Double Layer Capacitor)

- High Power Density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant

Drawing



D (Φ)	35 +1.5 Max
L (mm)	70 ±2.0
Z (mm)	6.0 ±1.0
P (mm)	23.0 ±0.2

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V_R)		3.0V	
Operating Temperature		-40 ~ +65℃	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V_R loaded under +65℃, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
		85℃ Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	△C	≤ 30% of initial value	
	ESR	≤ 2 times of specified value	
	Method	Cycle of Charge/discharge from V_R to 1/2V_R	
Shelf Life		3 Years No Electrical Charge, Temperature below 25℃ (△C : ≤ 10% of initial value / △ESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (㎃, 72hr)	Size (mm)
			AC(1㎑)	DC			D x L
VEC 3R0 507 QA	3.0	500	3.0	4.5	283	1.955	35 x 70

*** Max. Current** : 1 sec. discharge to 1/2V_R

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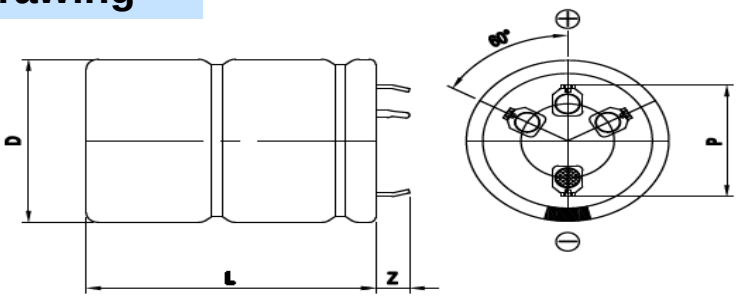
3.0V 500F (3582)

Features

EDLC (Electric Double Layer Capacitor)

- High Power Density (Low ESR)
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant

Drawing



D (Φ)	35 +1.5 Max
L (mm)	82 ±2.0
Z (mm)	6.0 ±1.0
P (mm)	23.0 ±0.2

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V_R)		3.0V	
Operating Temperature		-40 ~ +65℃	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V_R loaded under +65℃, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
		85℃ Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	△C	≤ 30% of initial value	
	ESR	≤ 2 times of specified value	
	Method	Cycle of Charge/discharge from V_R to $1/2V_R$	
Shelf Life		3 Years No Electrical Charge, Temperature below 25℃ (△C : ≤ 10% of initial value / △ESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (㎃, 72hr)	Size(mm)
			AC(1㎑)	DC			D x L
VEC 3R0 507 QG	3.0	500	3.0	3.2	288	1.500	35 x 82

*** Max. Current** : 1 sec. discharge to $1/2V_R$

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