

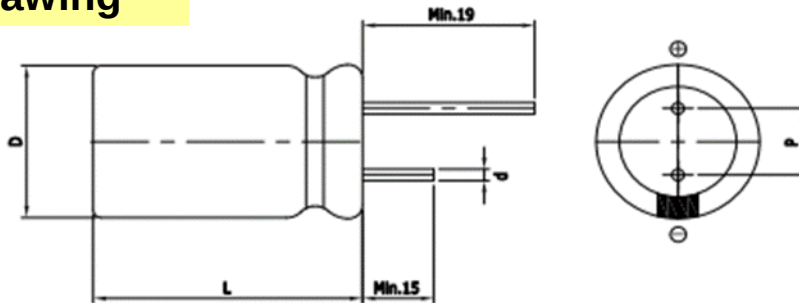
Features

EDLC (Electric Double Layer Capacitor)

- High Power Density
- Over 500,000 cycle life (semi-permanent)
- Higher energy density compared with 2.7V caps
- RoHS compliant
- Long-term reliability improved at high temperature and humidity



Drawing



D (Φ)	8.0 +1.0 Max
L (mm)	13.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	3.5 ±0.5

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V_R)		3.0V	
Operating Temperature		-40 ~ +65°C	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V_R loaded under +65°C, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
Cycle Life Characteristics	Cycle	Over 500,000	
	ΔC	≤ 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 (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 105 QG	3.0	1	145	215	1.2	0.002	0.003	08 x 13

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

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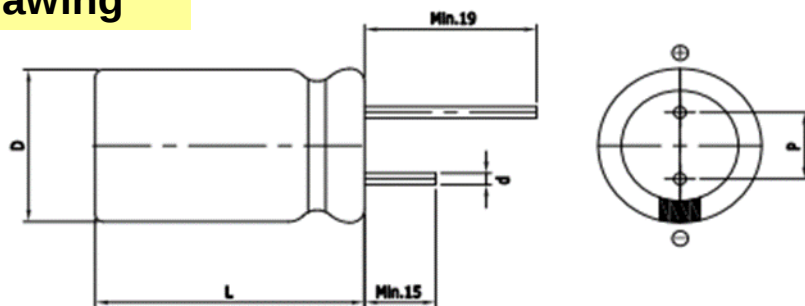
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Drawing



D (Φ)	8.0 +1.0 Max
L (mm)	20.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	3.5 ±0.5

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V_R)		3.0V	
Operating Temperature		-40 ~ +65°C	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V_R loaded under +65°C, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
Cycle Life Characteristics	Cycle	Over 500,000	
	ΔC	≤ 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 (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 335 QG	3.0	3.3	75	125	3.5	0.007	0.010	08 x 20

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

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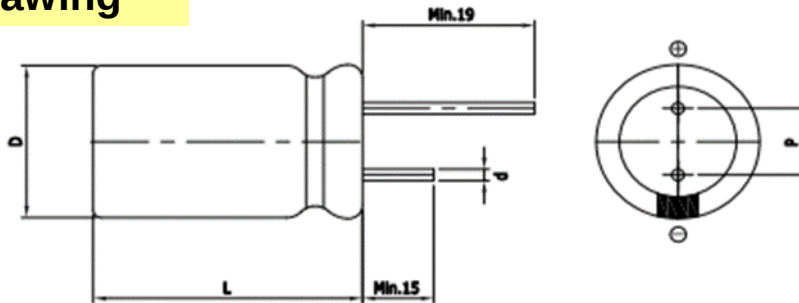
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Drawing



D (Φ)	8.0 +1.0 Max
L (mm)	25.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	3.5 ±0.5

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	
	ΔC	≤ 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℃ (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 505 QD	3.0	5	50	85	5.0	0.010	0.015	08 x 25

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

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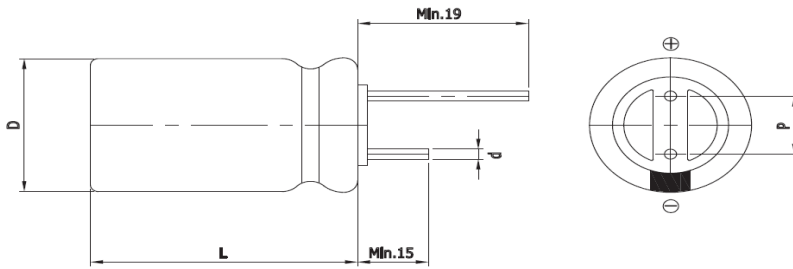
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Drawing



D (Φ)	10.0 +1.0 Max
L (mm)	20.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	5.0 ±0.5

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V _R)		3.0V	
Operating Temperature		-40 ~ +65°C	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V _R loaded under +65°C, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
		85°C Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	ΔC	≤ 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 (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 505 QG	3.0	5	80	120	4.5	0.010	0.015	10 x 20

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

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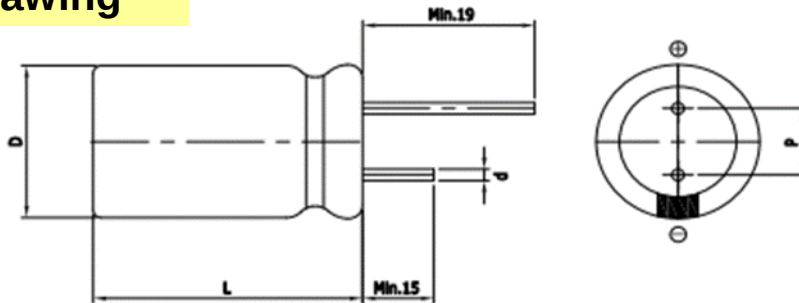
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Drawing



D (Φ)	8.0 +1.0 Max
L (mm)	30.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	3.5 ±0.5

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V _R)		3.0V	
Operating Temperature		-40 ~ +65°C	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V _R loaded under +65°C, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
		85°C Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	ΔC	≤ 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 (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 705 QD	3.0	7	45	75	6.5	0.014	0.021	08 x 30

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

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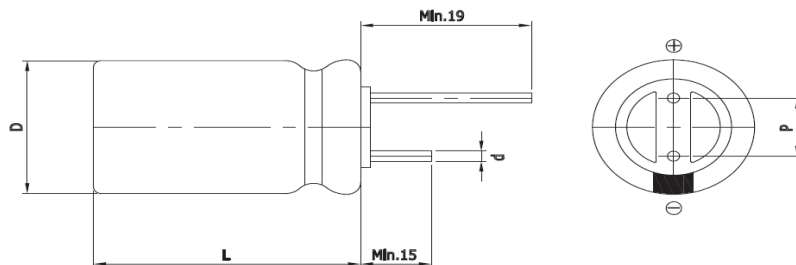
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Drawing



D (Φ)	10.0 +1.0 Max
L (mm)	20.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	5.0 ±0.5

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V _R)		3.0V	
Operating Temperature		-40 ~ +65°C	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V _R loaded under +65°C, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
		85°C Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	ΔC	≤ 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 (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 705 QG	3.0	7	80	135	5.0	0.014	0.021	10 x 20

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

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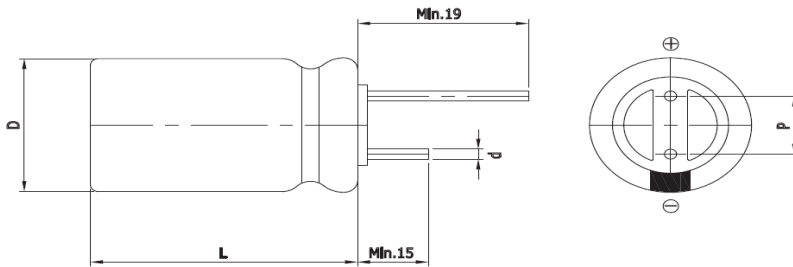
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D (Φ)	10.0 +1.0 Max
L (mm)	30.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	5.0 ±0.5

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						
	ΔC	≤ 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℃ (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)						
Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm)
			AC(1kHz)	DC		@2.7V	@3.0V	D x L
WEC 3R0 106 QG	3.0	10	30	45	10.0	0.020	0.030	10 x 30

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

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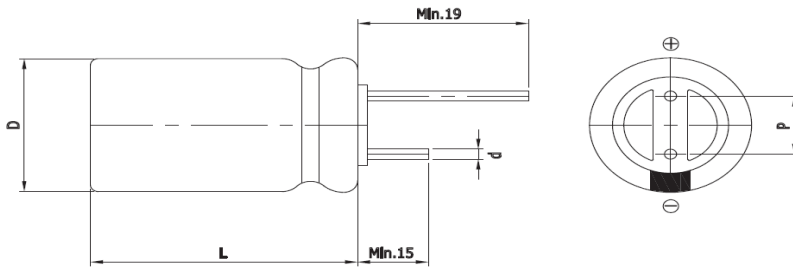
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Drawing



D (Φ)	12.5 +1.0 Max
L (mm)	20.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	5.0 ±0.5

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	
	ΔC	≤ 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℃ (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 106 QD	3.0	10	50	75	8.5	0.020	0.030	13 x 20

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

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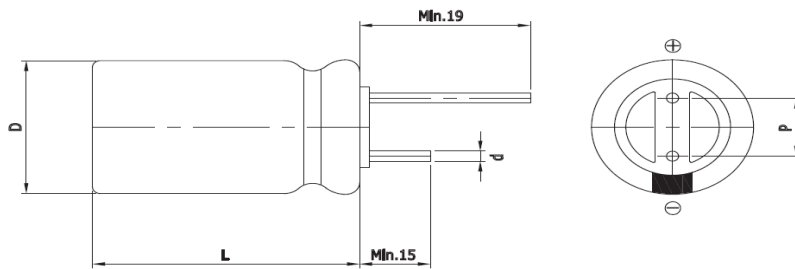
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D (Φ)	12.5 +1.0 Max
L (mm)	25.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	5.0 ±0.5

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	
	ΔC	≤ 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℃ (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 156 QG	3.0	15	37	55	12.0	0.030	0.045	13 x 25

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

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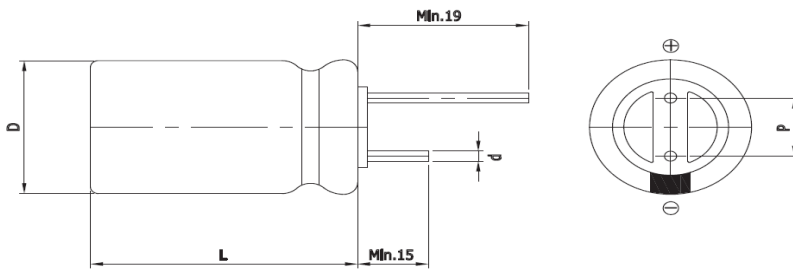
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D (Φ)	12.5 +1.0 Max
L (mm)	25.0 ±1.5
d (Φ)	0.6 ±0.1
P (mm)	5.0 ±0.5

Specification

Item		Characteristics	
Product series		EDLC	
Rated Voltage (V _R)		3.0V	
Operating Temperature		-40 ~ +65°C	
Capacitance Tolerance		-10 ~ +30%	
High Temperature Load Life		After 1,000 hours at V _R loaded under +65°C, capacitors meet the following criteria.	
		Capacitance Change	≤ 30% of initial value
		ESR	≤ 2 times of specified value
		85°C Temperature	Max. 2.4V
Cycle Life Characteristics	Cycle	Over 500,000	
	ΔC	≤ 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 (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 186 QC	3.0	18	30	50	14.0	0.036	0.054	13 x 25

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

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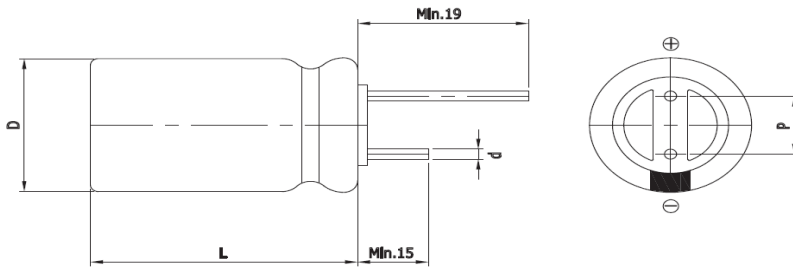
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D (Φ)	16.0 +1.0 Max
L (mm)	25.0 ±1.5
d (Φ)	0.8 ±0.1
P (mm)	7.5 ±0.5

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	
	ΔC	≤ 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℃ (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 256 QG	3.0	25	20	30	21.0	0.050	0.075	16 x 25

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

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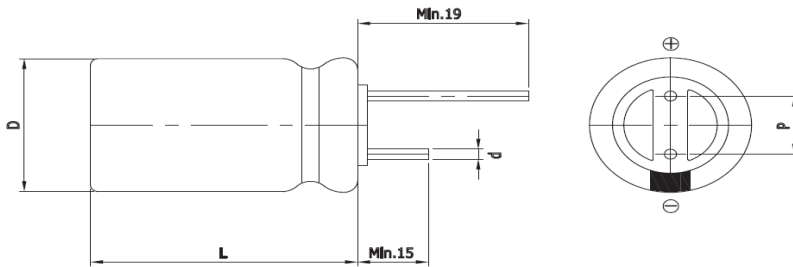
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D (Φ)	18.0 +1.0 Max
L (mm)	40.0 ±1.5
d (Φ)	0.8 ±0.1
P (mm)	7.5 ±0.5

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	
	ΔC	≤ 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℃ (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 506 QG	3.0	50	13	20	37.0	0.100	0.150	18 x 40

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

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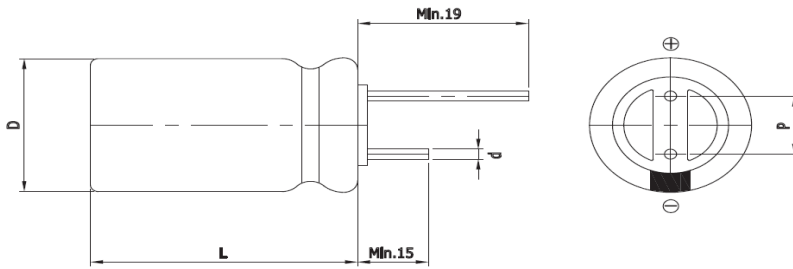
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D (Φ)	18.0 +1.0 Max
L (mm)	40.0 ±1.5
d (Φ)	0.8 ±0.1
P (mm)	7.5 ±0.5

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	
	ΔC	≤ 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℃ (ΔC : ≤ 10% of initial value / ΔESR : ≤ 50% of specified value)	

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)		Size (mm) D x L
			AC(1kHz)	DC		@2.7V	@3.0V	
WEC 3R0 60G QG	3.0	60	13	20	40.0	0.120	0.180	18 x 40

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

Version 1.3 2021.02.01.