

FEATURES

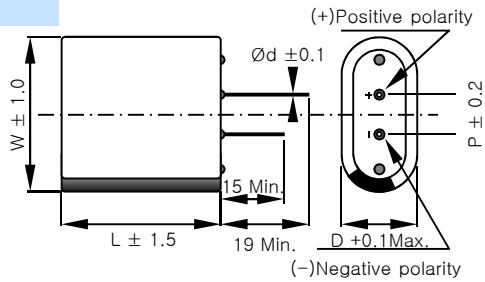
2 units serially connected to provide 5.0V products

Lead terminal type

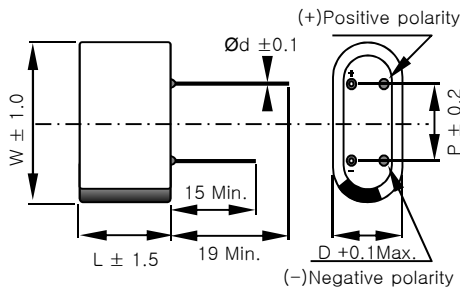
2-Pin terminal type according to customer's requirement

Drawing

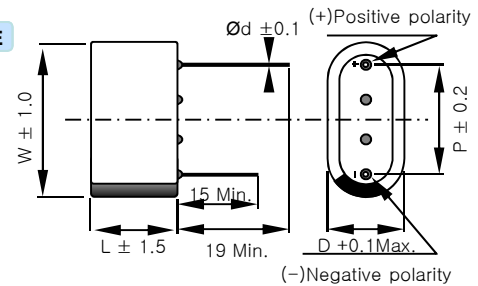
I TYPE



H TYPE



O TYPE



D = 8.5mm

TYPE	I	O	H
P	4.7	12.3	8.5

D = 10.5mm

TYPE	I	O	H
P	5.5	15.5	10.5

D = 13mm

TYPE	I	O	H
P	7.5	18.5	13

SPECIFICATION

ITEM		CHARACTERISTICS
Rated Voltage (V_R)		5.0 V
Operating Temperature		-25 ~ +70°C
Capacitance Tolerance		-10 ~ +30%
High Temp. Load Life	Measure	After 1,000 hours at V_R loaded under +70°C, capacitors meet the following criteria.
	Cap. Change	≤ 30% of initial value
	ESR Change	100% increase from specified value
Cycle Life Characteristics	Cycle	500,000
	Cap. Change	≤ 30% of initial value
	ESR Change	100% increase from specified value
	Condition	Cycle of Charge/discharge from V_R to $1/2V_R$
Shelf Life		2 years No Electrical Charge, Temperature Below 70°C (ΔC : ≤10% of initial value / ΔESR : ≤ 50% of initial value)

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)	Size (mm) D × W × L	Weight (g)	Volume (ml)
			AC(1kHz)	DC					
VEC5R0504QG	5.0	0.5	805	1205	0.5	0.002	8.5×17×15.5	3.0	2.2
VEC5R0155QG		1.5	445	755	1.5	0.007	8.5×17×22	3.8	3.2
VEC5R0255QA		2.5	245	425	3.0	0.013	8.5×17×27	4.6	3.9
VEC5R0255QG		2.5	305	395	3.0	0.010	10.5×21×22.5	5.0	5.0
VEC5R0355QG		3.5	355	555	3.0	0.014	10.5×21×22.5	5.4	5.0
VEC5R0505QA		5.0	245	415	4.0	0.020	10.5×21×27	6.6	7.1
VEC5R0505QG		5.0	175	205	6.0	0.020	10.5×21×32	7.0	7.1
VEC5R0755QG		7.5	145	205	7.5	0.030	13×26×28	9.6	9.5

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

* When do module more than 2 series, please fully discharge over 1 hour first, then assemble right after within 1 hour.

5.4V – 2 SERIAL MODULE



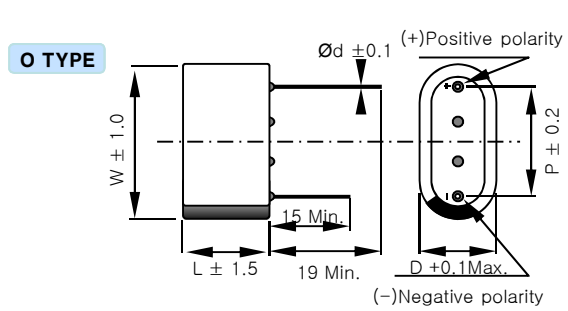
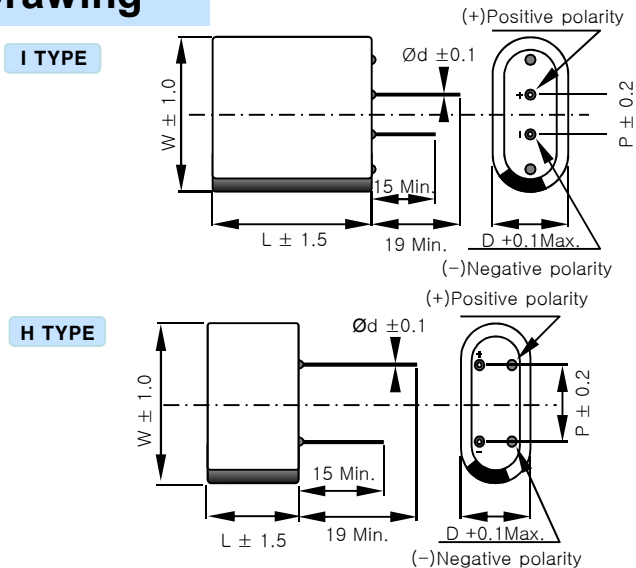
FEATURES

2 units serially connected to provide 5.4V products

Lead terminal type

2-Pin terminal type according to customer's requirement

Drawing



D = 8.5mm

TYPE	I	O	H
P	4.7	12.3	8.5

D = 10.5mm

TYPE	I	O	H
P	5.5	15.5	10.5

D = 13mm

TYPE	I	O	H
P	7.5	18.5	13

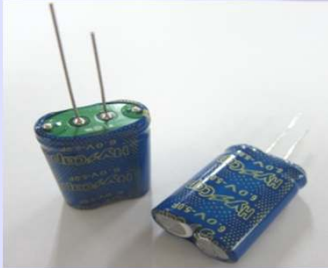
SPECIFICATION

ITEM		CHARACTERISTICS
Rated Voltage (V_R)		5.4 V
Operating Temperature		-40 ~ +65°C
Capacitance Tolerance		-10 ~ +30%
High Temp. Load Life	Measure	After 1,000 hours at V_R loaded under +70°C, capacitors meet the following criteria.
	Cap. Change	≤ 30% of initial value
	ESR Change	100% increase from specified value
Cycle Life Characteristics	Cycle	500,000
	Cap. Change	≤ 30% of initial value
	ESR Change	100% increase from specified value
	Condition	Cycle of Charge/discharge from V_R to $1/2V_R$
Shelf Life		2 years No Electrical Charge, Temperature Below 70°C (ΔC : ≤10% of initial value / ΔESR : ≤ 50% of initial value)

Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)	Size (mm) D × W × L	Weight (g)	Volume (ml)
			AC(1kHz)	DC					
VEC5R4504QG	5.4	0.5	265	395	1.0	0.002	8.5×17×15.5	2.6	2.2
VEC5R4155QG		1.5	115	195	3.0	0.007	8.5×17×22	3.3	3.2
VEC5R4255QA		2.5	75	125	5.0	0.010	8.5×17×27	4.5	3.9
VEC5R4255QG		2.5	115	175	4.5	0.010	10.5×21×22.5	4.7	5.0
VEC5R4355QG		3.5	115	195	5.5	0.014	10.5×21×22.5	4.8	5.0
VEC5R4505QA		5.0	75	125	8.0	0.020	10.5×21×27	6.4	7.0
VEC5R4505QG		5.0	55	85	9.0	0.020	10.5×21×32	6.6	7.1
VEC5R4755QG		7.5	55	85	12.5	0.030	13×26×28	9.6	9.5

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

* When do module more than 2 series, please fully discharge over 1 hour first, then assemble right after within 1 hour.



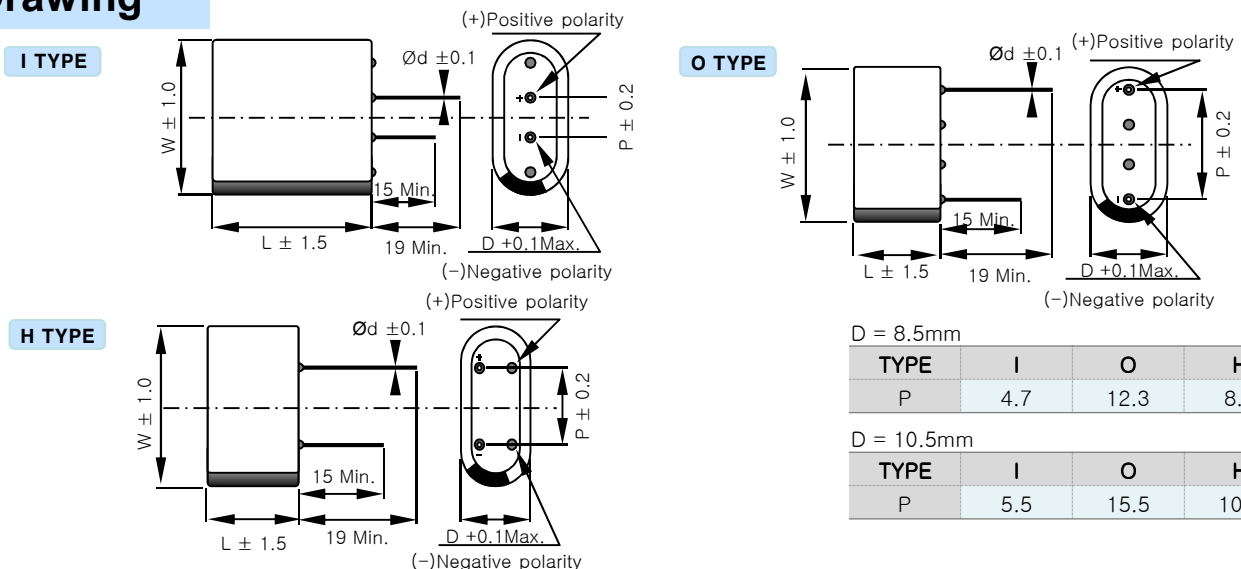
FEATURES

2 units serially connected to provide 6.0V products

Lead terminal type

2-Pin terminal type according to customer's requirement

Drawing



D = 8.5mm			
TYPE	I	O	H
P	4.7	12.3	8.5

D = 10.5mm			
TYPE	I	O	H
P	5.5	15.5	10.5

SPECIFICATION

ITEM		CHARACTERISTICS												
Rated Voltage (V_R)		6.0 V												
Operating Temperature		-40 ~ +65°C												
Capacitance Tolerance		-10 ~ +30%												
High Temp. Load Life	Measure	After 1,000 hours at V_R loaded under +70°C, capacitors meet the following criteria.												
	Cap. Change	≤ 30% of initial value												
	ESR Change	100% increase from specified value												
Cycle Life Characteristics	Cycle	500,000												
	Cap. Change	≤ 30% of initial value												
	ESR Change	100% increase from specified value												
	Condition	Cycle of Charge/discharge from V_R to $1/2V_R$												
Shelf Life		2 years No Electrical Charge, Temperature Below 70°C (ΔC : ≤10% of initial value / ΔESR : ≤ 50% of initial value)												
Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)		Max. Current (A)	Leakage Current (mA, 72hr)	Size (mm)	Weight (g)	Volume (ml)					
VEC6R0504QG	6.0	0.5	AC(1kHz)	DC	1.0	0.003	8.5×17×15.5	2.5	2.2					
VEC6R0155QG		1.5	125	215						3.5	0.010	8.5×17×22	3.3	3.2
VEC6R0255QG		2.5	135	205						5.0	0.015	10.5×21×22.5	4.7	5.0
VEC6R0505QG		5.0	65	95						10.0	0.030	10.5×21×32	6.6	7.1

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

* When do module more than 2 series, please fully discharge over 1 hour first, then assemble right after within 1 hour.