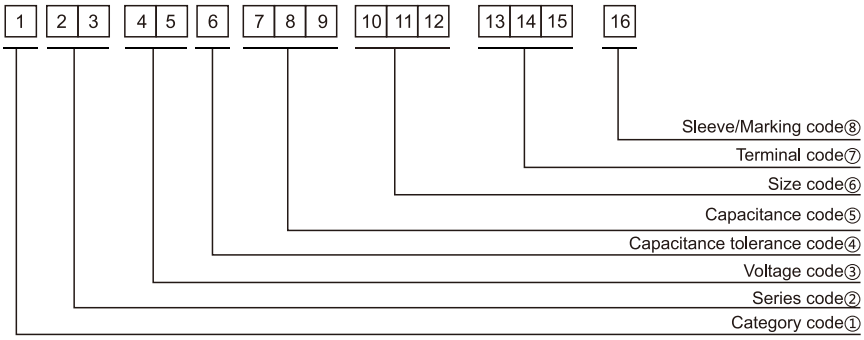
Part Numbering System



① Category code

Type	Code
	1
Electrolytic Capacitor	E
Conductive Polymer	S

② Series code

Series name	Code	
	2	3
WH	W	H
CD11GE	G	E
CD11GES	G	X
CD11GAS	G	W
CD11GHS	G	S
NR	N	R
PZ	P	Z

③ Voltage code

WV (V_{dc})	Code	
	4	5
2.5	0	E
3	0	D
4	0	G
6.3	0	J
6.8	0	C
7	0	Q
7.5	0	A
10	1	A
12	1	T
16	1	C
25	1	E
35	1	V
40	1	G
50	1	H
63	1	J
80	1	B
100	1	K
120	2	B
160	2	C
180	2	L
200	2	D
220	2	N
250	2	E
315	2	F
350	2	V
380	2	P
400	2	G
420	2	T
450	2	W
500	2	H
550	2	J
600	2	K

④ Capacitance tolerance code

Tol. (%)	Code
	6
-10~+10	K
-20~+20	M
-10~+30	Q
-10~+20	V
0~+20	A
-5~+20	C
-10~-20	B
-5~+5	D
0~+10	E
-5~-20	F
-15~+5	N

⑤ Capacitance code

Cap (μF)	Code		
	7	8	9
0.10	R	1	0
0.22	R	2	2
0.33	R	3	3
0.47	R	4	7
0.68	R	6	8
1	0	1	0
2.2	2	R	2
3.3	3	R	3
4.7	4	R	7
6.8	6	R	8
10	1	0	0
22	2	2	0
33	3	3	0
47	4	7	0
68	6	8	0
100	1	0	1
220	2	2	1
330	3	3	1
470	4	7	1
680	6	8	1
1000	1	0	2
2200	2	2	2
3300	3	3	2
4700	4	7	2
6800	6	8	2
10000	1	0	3
22000	2	2	3
33000	3	3	3
68000	6	8	3

⑥ Size code

ΦD (mm)	Code
	10
4	C
5	D
6.3	E
8	F
10	G
11	H
12	J
12.5	W
13	K
14	X
16	L
18	M
19	Z
20	N
22	O
25	P
30	Q
35	R
40	Y
51.6	S
64.3	T
76.9	U
91	V
100	A

L (mm)	Code	
	11	12
5	0	5
7	0	7
11	1	1
12	1	2
16	1	6
20	2	0
25	2	5
30	3	0
35	3	5
40	4	0
46	4	6
50	5	0
60	6	0
80	8	0
100	A	0
115	B	5
120	C	0
130	D	0
140	E	0
160	G	0
200	K	0
220	M	0
236	N	6
250	P	0

⑦ Terminal code

Specification	Code	Size	
	13	14	15
Bulk packing	O	-	-
Taping (SMD Type)	D	0	0
Φ4~8 Taping F=5.0mm	P	5	0
Φ10~12.5 Taping F=5.0mm	B	5	0
Lead Cut L=3.5mm	C	3	5
Lead Cut L=11.0mm	C	B	0
Lead Forming & Cut L=4.5mm	F	-	-
Kink & Cut L=4.5mm	J	-	-
Snap-in type Terminal 4.0mm in length	K	-	-
Three Terminals	T	-	-
Ring clip mounting standard design	A	0	0
Ring clip mounting special design	S	-	-

⑧ Sleeve/Marking code

Sleeve/Marking	Code
	16
PVC	C
PET	T
Dark blue	B
Bright red	R
Sky-blue	S
Light blue	T
Pink	Z
Black	H
Purple-blue	V
Red	O

Lead Forming

Taping Specifications

Fig.1 code: X

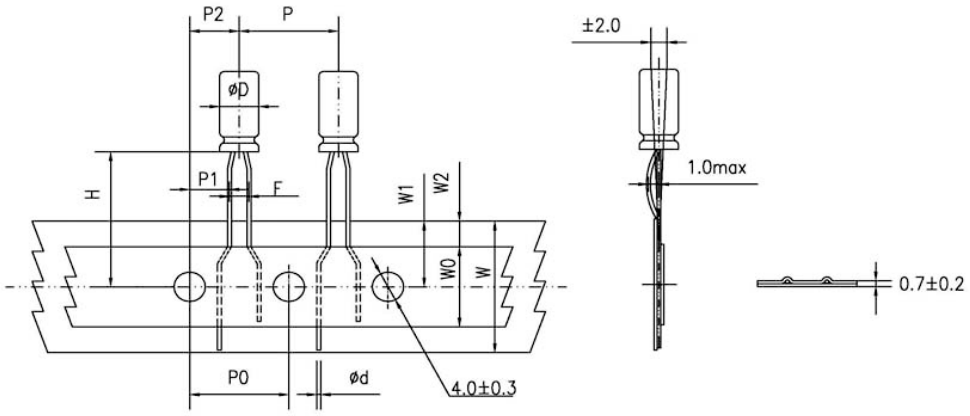


Fig.2 code: B

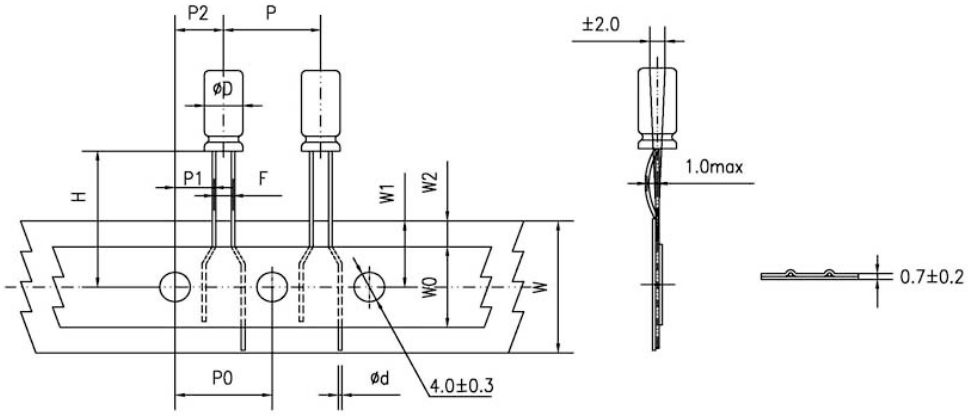


Fig.3 code: B

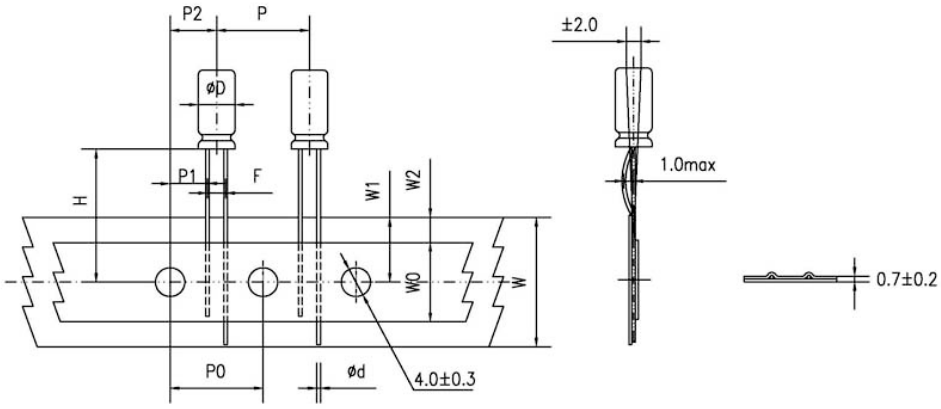
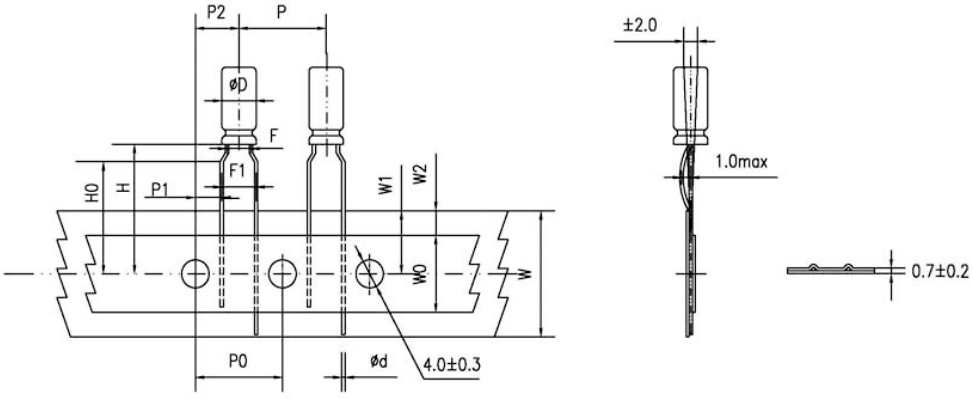


Fig.4 code: P



Lead Forming

Specification Fig.1 & Fig.2 & Fig.3

Items	Symbol	Case size									Tolerance
		4*5 4*7	5*5 5*7	5*11	6.3*5	6.3*7 6.3*9	6.3*11 6.3*12	8*5/7 8*9/11 8*11.5 8*12	8*16 8*20	10*9/12 10*12.5 10*13/16 10*20/25	
Pin Code		X B	X B	X B	B	B	B	B	B	B	
Lead wire diameter	Φd	0.45	0.45	0.5	0.45	0.5	0.5	0.45/0.5	0.6	0.6	±0.05
Pitch of body	P	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	±1.0
Feed hole pitch	P0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	±0.2
Distance from hole center to lead	P1	5.1 5.6	5.1 5.35	5.1 5.35	5.1	5.1	5.1	4.6	4.6	3.85	±0.7
Distance from feed hole center to body center	P2	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	±1.0
Lead-to-lead distance	F	2.5 1.5	2.5 2.0	2.5 2.0	2.5	2.5	2.5	3.5	3.5	5.0	±0.5
Height of body from tape center	H	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	±0.75
Base tape width	W	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	±0.5
Adhesive tape width	W0	6.0	6.0	6.0	6.0	6.0	8.0	8.0	8.0	11.0	min
Hole position	W1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	+0.75 -0.5
Hole down tape position	W2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	max

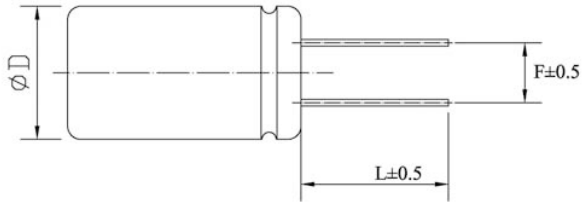
Specification Fig.4

Items	Symbol	Case size									Tolerance
		4*5 4*7	5*5	5*7	5*11	6.3*5	6.3*7 6.3*9	6.3*11 6.3*12	8*5/7 8*9/11 8*11.5/12	8*16 8*20	
Pin Code		P	P	P	P	P	P	P	P	P	
Lead wire diameter	Φd	0.45	0.45	0.45	0.5	0.45	0.5	0.5	0.45/0.5	0.6	±0.05
Pitch of body	P	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	±1.0
Feed hole pitch	P0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	±0.2
Distance from hole center to lead	P1	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	±0.7
Distance from feed hole center to body center	P2	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	±1.0
Lead-to-lead distance	F	1.5	2.0	2.0	2.0	2.5	2.5	2.5	3.5	3.5	±0.5
Lead to lead distance	F1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	+0.8 -0.2
Height of body from tape center	H	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	±0.75
Lead wire clinch height	H0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	±0.5
Base tape width	W	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	±0.5
Adhesive tape width	W0	6.0	6.0	6.0	6.0	6.0	6.0	8.0	8.0	8.0	min
Hole position	W1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	+0.75 -0.5
Hole down tape position	W2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	max

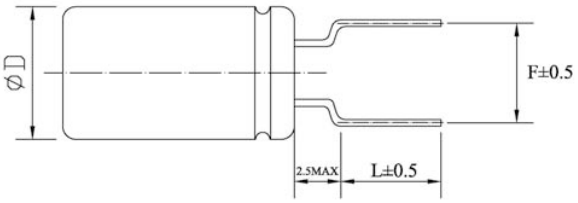
Lead Forming

Lead Forming & Cut

Code:C
RANGE: Φ4~Φ18

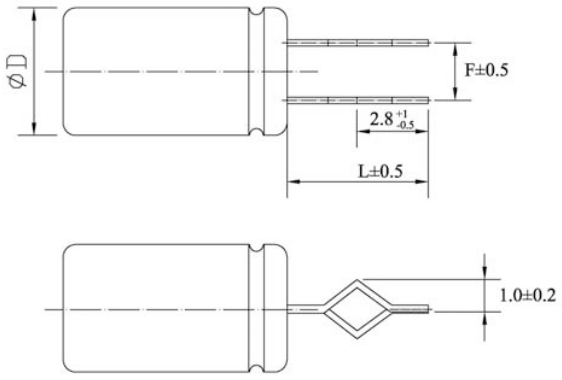


Code:F
RANGE: Φ4~Φ8



ΦD	F	L	ΦD	F	L
4	1.5	3.0~12.0	4	5.0	3.5, 4.5, 5.0, 7.0
5	2.0	3.0~12.0	5	5.0	3.5, 4.5, 5.0, 7.0
6.3	2.5	3.0~12.0	6.3	5.0	3.5, 4.5, 5.0, 7.0
8	3.5	3.0~12.0	8	5.0	3.5, 4.5, 5.0, 7.0
10	5.0	3.0~12.0	-	-	-
12.5	5.0	3.0~12.0	-	-	-
16	7.5	3.0~12.0	-	-	-
18	7.5	3.0~12.0	-	-	-

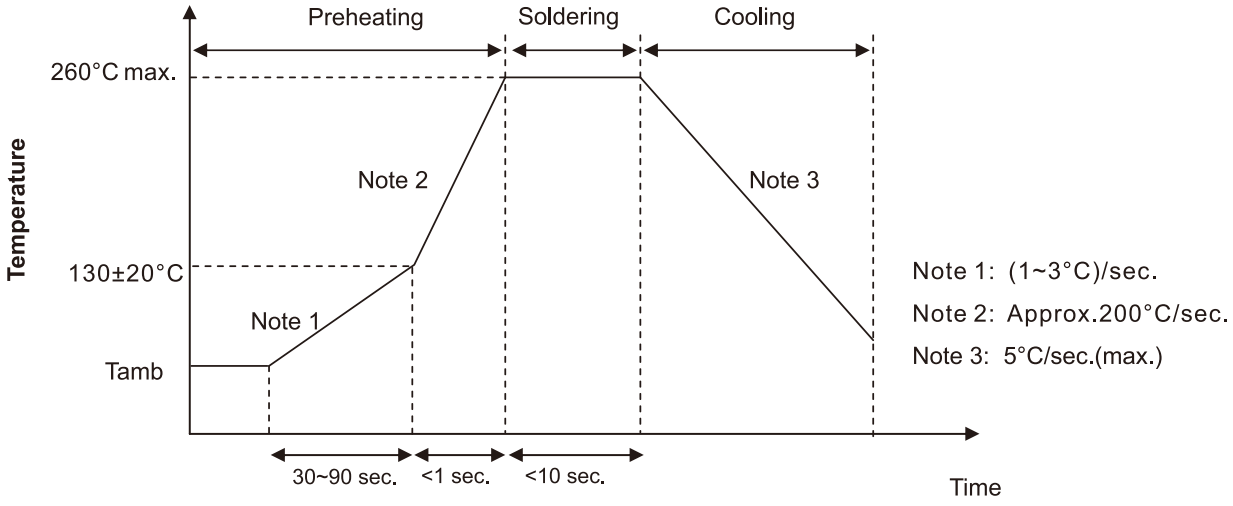
Code:J
RANGE: Φ10~Φ18



ΦD	F	L
10	5.0	4.0, 4.5, 5.0
12.5	5.0	4.0, 4.5, 5.0
16	7.5	4.0, 4.5, 5.0
18	7.5	4.0, 4.5, 5.0

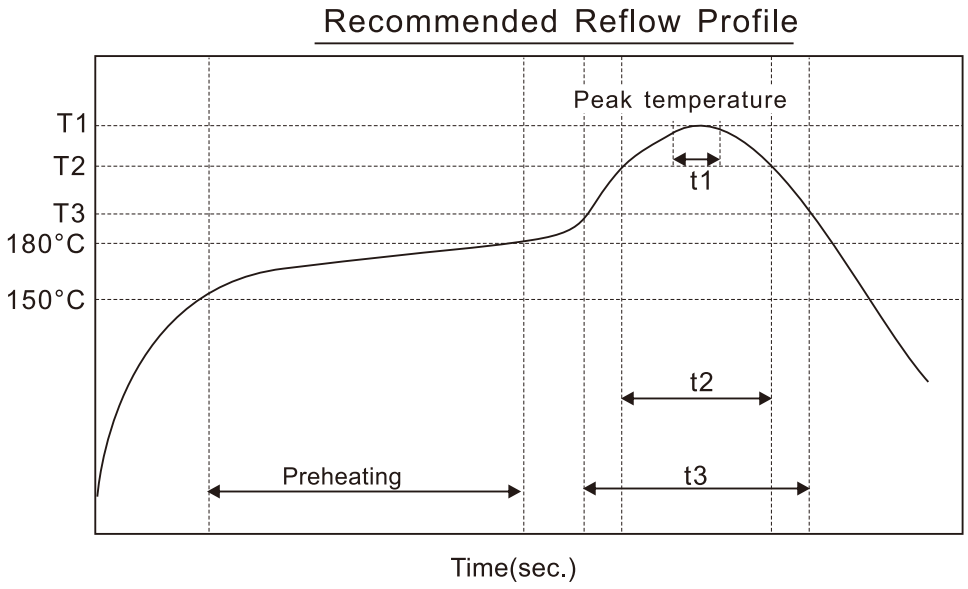
Solering Recommendation

■ Flow Soldering(Radial Lead Type)



■ Reflow Soldering

• (For Polymer SMD Type)

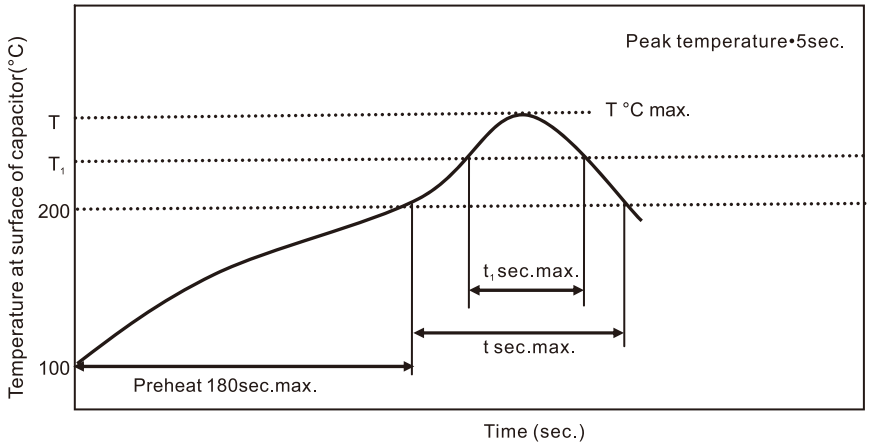


Item	Preheating	T1(°C)	T2(°C)	T3(°C)	t1(sec.)	t2(sec.)	t3(sec.)	Reflow cycle
Condition 1	150°C to 180°C Within 90sec.	≤260	230	200	≤10	≤40	≤60	1
Condition 2		≤250	230	200	≤10	≤40	≤60	2

• (For Liquid SMD Type)

Case size:Φ6.3~Φ10mm:

- Temperature at surface of capacitor shall not exceed T°C.
- The duration for over 200°C temperature and T_1°C at surface of capacitor shall not exceed t and $t_1$seconds,respectively.
- Preheat shall be done at 100°C to 200°C and for Maximum 180 seconds.

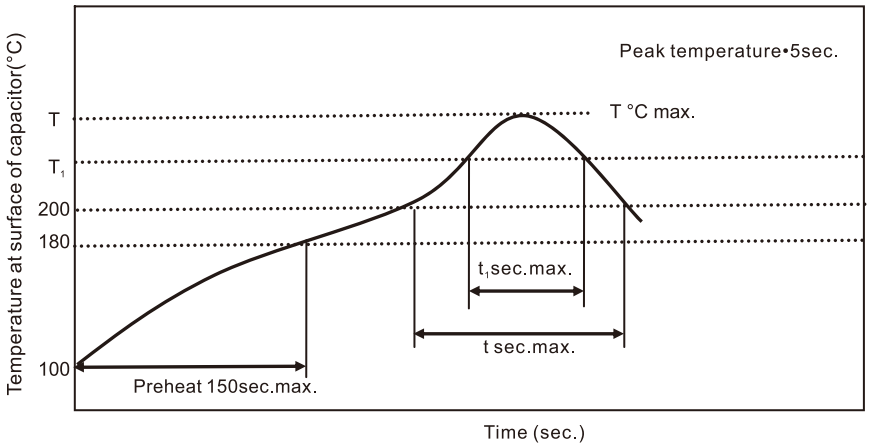


Case size (mm)	T(°C) ①	T_1(°C)	t(sec.) ②	t_1(sec.) ③	Reflow cycle
Φ6.3	250	230	90	40	1
Φ8	240	230	90	30	1
Φ10	235	230	60	30	1

① Peak temperature
② The duration over 200°C (max.)
③ The duration over T_1°C
■ Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

Case size:Φ12.5~Φ18mm:

- Temperature at surface of capacitor shall not exceed T°C.
- The duration for over 200°C temperature and T_1°C at surface of capacitor shall not exceed t and t_1 seconds,respectively.
- Preheat shall be done at 100°C to 180°C and for Maximum 150 seconds.



Case size (mm)	T(°C) ①	T_1(°C)	t(sec.) ②	t_1(sec.) ③	Reflow cycle
Φ12.5~Φ18	240	230	60	30	1

① Peak temperature
② The duration over 200°C (max.)
③ The duration over T_1°C
■ Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

GH series

- Endurance: +105°C 5,000~10,000 hours
- Especially designed for electronic ballast, intelligent instrument, etc.
- **RoHS Compliant**

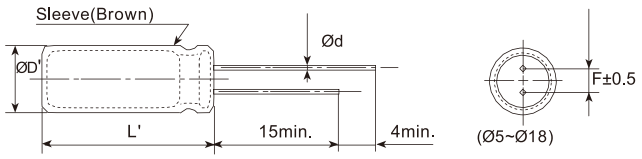
Upgrade

SPECIFICATIONS

Items	Characteristics
Category Temperature Range	-40~+105°C
Rated Voltage Range	6.3~450 Vdc
Capacitance Tolerance	±20%(M) (at 20°C,120Hz)
Leakage Current	6.3~100Vdc: I≤0.01CV or 3μA (2 minutes) Whichever is greater. 160~450Vdc: CV≤1,000 → I≤0.1CV+40μA (After 1 minute); I≤0.03CV+15μA (After 5 minutes); CV>1,000 → I≤0.04CV+100μA (After 1 minute); I≤0.02CV+25μA (After 5 minutes) Where, I:Max.leakage current (μA), C:Nominal capacitance (μF), V: Rated voltage (V) (at 20°C)
Dissipation Factor (tanδ)	Rated Voltage(Vdc): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 / 160~250 / 350~450 tanδ(max.): 0.30 / 0.24 / 0.20 / 0.18 / 0.16 / 0.14 / 0.12 / 0.10 / 0.15 / 0.20 When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C,120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(Vdc): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 / 160~250 / 350~450 Z(-25°C)/Z(+20°C): 5 / 4 / 3 / 2 / 3 / 6 Z(-40°C)/Z(+20°C): 12 / 10 / 8 / 5 / 4 / 3 / 7 / 7 (at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after DC voltage plus the rated ripple current is applied for a specified period of time at 105°C. Capacitance Change: ≤±20% of the initial value(6.3V,10V:≤± 30%) D.F. (tanδ): ≤200% of the initial specified value Leakage Current: ≤The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. Capacitance Change: ≤±20% of the initial value(6.3V,10V:≤±30%) D.F. (tanδ): ≤200% of the initial specified value Leakage Current: ≤200% of the initial specified value

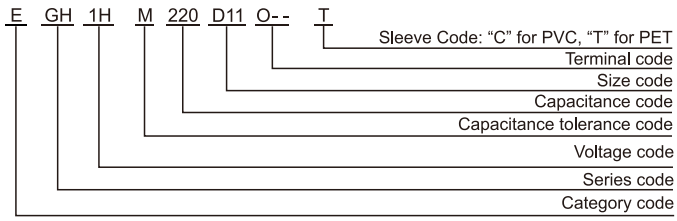
Case Dia.	Load life (hours)		
	6.3~10V	16~100V	160~450V
ØD≤6.3	5,000		-
ØD=8&10	6,000	7,000	10,000
ØD≥12.5	8,000		

DIMENSIONS[mm]



ØD	5	6.3	8		10	12.5	16	18
Ød	0.5	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5		5.0	5.0	7.5	7.5
ØD'	ØD+0.5max.							
L'	L+2max.							

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Rated Voltage(V)	Freq.(Hz) / Cap.(μF)	120	1k	10k	100k
6.3~100	Cap.<100	0.40	0.68	0.78	1.00
	100≤Cap.<220	0.50	0.76	0.87	1.00
	220≤Cap.<1000	0.70	0.85	0.90	1.00
	1000≤Cap.	0.85	0.95	0.98	1.00
160~450	Cap.<100	0.40	0.70	0.90	1.00
	Cap.≥100	0.44	0.74	0.91	1.00

The endurance of capacitors is shortened with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

GH series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (mArms/105°C,100kHz)
6.3(0J)	150	5*11	0.30	91
	330	6.3*11	0.30	151
	680	8*12	0.30	228
	820	10*12.5	0.30	256
	1000	8*16	0.30	272
	1200	8*20	0.30	386
		10*16	0.30	386
	1500	10*20	0.30	513
	1800	12.5*16	0.30	513
	2200	10*25	0.32	580
	2700	10*30	0.32	630
		16*15	0.32	630
	3300	12.5*20	0.34	665
	3900	12.5*25	0.34	807
		18*15	0.34	807
	4700	12.5*30	0.36	902
	5600	12.5*35	0.38	1034
		16*20	0.38	1034
	6800	12.5*40	0.40	1190
		16*25	0.40	1190
		18*20	0.40	1190
	8200	16*30	0.44	1400
	10000	16*35	0.48	1600
		18*25	0.48	1600
	12000	16*40	0.52	1850
		18*30	0.52	1850
	15000	18*35	0.58	1850
	18000	18*40	0.64	2000
10(1A)	100	5*11	0.24	91
	220	6.3*11	0.24	151
	470	8*12	0.24	228
	680	8*16	0.24	256
		10*12.5	0.24	272
	1000	8*20	0.24	400
		10*16	0.24	430
	1200	10*20	0.24	513
	1500	10*25	0.24	580
		12.5*16	0.24	580
	2200	10*30	0.26	630
		12.5*20	0.26	681
		16*15	0.26	681
	2700	18*15	0.26	807
	3300	12.5*25	0.28	807
	3900	12.5*30	0.28	902
		16*20	0.28	902
	4700	16*25	0.30	1116
	5600	12.5*40	0.32	1190
		16*25	0.32	1190
		18*20	0.32	1190
	6800	16*30	0.34	1400
		18*25	0.34	1400
	8200	16*35	0.38	1600
		18*30	0.38	1600
	10000	16*40	0.42	1850
		18*35	0.42	1850
	12000	18*40	0.46	2000

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (mArms/105°C,100kHz)
16(1C)	56	5*11	0.20	100
	120	6.3*11	0.20	118
	330	8*12	0.20	205
	470	8*16	0.20	256
		10*12.5	0.20	272
	680	8*20	0.20	386
		10*16	0.20	386
	1000	10*20	0.20	513
		12.5*16	0.20	513
	1200	10*25	0.20	580
	1500	10*30	0.20	630
		12.5*20	0.20	665
		16*15	0.20	665
	2200	12.5*25	0.22	807
		18*15	0.22	807
	2700	12.5*30	0.22	902
		16*20	0.22	902
	3300	12.5*35	0.24	1034
	3900	12.5*40	0.24	1190
		16*25	0.24	1190
		18*20	0.24	1190
	4700	16*30	0.26	1400
		18*25	0.26	1400
	5600	16*35	0.28	1600
		18*30	0.28	1600
	6800	16*40	0,30	1850
	8200	18*35	0.34	1850
	10000	18*40	0.38	2000
25(1E)	47	5*11	0.18	124
	100	6.3*11	0.18	138
	220	8*12	0.18	205
	330	8*16	0.18	225
		10*12.5	0.18	245
	470	8*20	0.18	320
		10*16	0.18	340
	680	10*20	0.18	345
		12.5*16	0.18	345
	820	10*25	0.18	450
	1000	10*30	0.18	540
		12.5*20	0.18	540
		16*15	0.18	540
	1200	18*15	0.18	560
	1500	12.5*25	0.18	665
	1800	12.5*30	0.18	790
		16*20	0.18	800
	2200	12.5*35	0.20	860
		18*20	0.20	880
	2700	12.5*40	0.20	960
		16*25	0.20	980
	3300	16*30	0.22	1190
		18*25	0.22	1190
	3900	16*35	0.22	1400
		18*30	0.22	1400
	4700	16*40	0.24	1600
		18*35	0.24	1600
	5600	18*40	0.26	1850

GH series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (mArms/105°C,100kHz)
35(1V)	33	5*11	0.16	90
	56	6.3*11	0.16	110
	150	8*12	0.16	180
	220	8*16	0.16	240
		10*12.5	0.16	252
	270	8*20	0.16	280
	330	10*16	0.16	312
	470	10*20	0.16	386
		12.5*16	0.16	394
	560	10*25	0.16	450
	680	10*30	0.16	496
		12.5*20	0.16	520
		16*15	0.16	520
	1000	12.5*25	0.16	810
		18*15	0.16	810
	1200	12.5*30	0.16	860
		16*25	0.16	880
	1500	12.5*35	0.16	880
	1800	12.5*40	0.16	960
		16*20	0.16	900
		18*20	0.16	960
	2200	16*30	0.18	1190
		18*25	0.18	1190
	2700	16*35	0.18	1400
		18*30	0.18	1400
	3300	16*40	0.20	1600
		18*35	0.20	1600
	3900	18*40	0.20	1850
50(1H)	22	5*11	0.14	84
	56	6.3*11	0.14	146
	100	8*12	0.14	152
	120	8*16	0.14	180
	150	10*12.5	0.14	215
	180	8*20	0.14	246
	220	10*16	0.14	291
	270	10*20	0.14	330
		12.5*16	0.14	330
	330	10*25	0.14	386
	470	10*30	0.14	460
		12.5*20	0.14	475
		16*15	0.14	475
	560	12.5*25	0.14	520
		18*15	0.14	520
	680	12.5*30	0.14	665
	820	12.5*35	0.14	800
		16*20	0.14	800
	1000	12.5*40	0.14	880
		16*25	0.14	880
		18*20	0.14	880
	1200	16*30	0.14	1190
		18*25	0.14	1190
	1500	16*35	0.14	1400
	1800	16*40	0.14	1600
		18*30	0.14	1600
	2200	18*35	0.16	1800
	2700	18*40	0.16	1850

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (mArms/105°C,100kHz)
63(1J)	15	5*11	0.12	62
	33	6.3*11	0.12	126
	56	8*12	0.12	198
	82	8*16	0.12	246
		10*12.5	0.12	252
	120	8*20	0.12	300
		10*16	0.12	310
	180	10*20	0.12	386
		12.5*16	0.12	394
	220	10*25	0.12	450
	270	12.5*20	0.12	520
	330	12.5*25	0.12	665
	470	12.5*30	0.12	790
		16*20	0.12	800
	560	12.5*35	0.12	860
		16*25	0.12	880
	680	12.5*40	0.12	960
		18*20	0.12	980
	820	16*30	0.12	1190
		18*25	0.12	1190
	1000	16*35	0.12	1400
		18*30	0.12	1400
	1200	16*40	0.12	1600
		18*35	0.12	1600
	1500	18*40	0.12	1850
100(1K)	6.8	5*11	0.10	62
	15	6.3*11	0.10	126
	27	8*12	0.10	198
	39	8*16	0.10	246
	47	10*12.5	0.10	252
	56	8*20	0.10	300
	68	10*16	0.10	330
	82	10*20	0.10	386
		12.5*16	0.10	394
	100	10*25	0.10	450
	120	12.5*20	0.10	520
	180	12.5*25	0.10	665
	220	16*20	0.10	800
		12.5*30	0.10	790
	270	12.5*35	0.10	860
		16*25	0.10	880
	330	18*20	0.10	980
		12.5*40	0.10	960
	390	16*30	0.10	1190
		18*25	0.10	1190
	470	16*35	0.10	1400
		18*30	0.10	1400
	560	16*40	0.10	1600
	680	18*35	0.10	1600
	820	18*40	0.10	1850

GH series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (mArms/105°C,100kHz)
160(2C)	10	8*12	0.15	320
	12	10*12	0.15	375
	15	10*16	0.15	438
	22	10*16	0.15	500
	33	10*20	0.15	663
	39	10*20	0.15	688
	47	10*20	0.15	750
		12.5*20	0.15	788
	56	12.5*20	0.15	950
	68	12.5*20	0.15	1195
	82	12.5*20	0.15	1275
		16*20	0.15	1313
	100	12.5*25	0.15	1432
		16*20	0.15	1443
	150	16*20	0.15	1750
		16*25	0.15	1795
	220	16*25	0.15	2318
		18*25	0.15	2375
	330	18*30	0.15	2959
200(2D)	10	10*16	0.15	290
	12	10*16	0.15	300
	15	10*16	0.15	413
	22	10*20	0.15	513
	33	10*20	0.15	638
		12.5*20	0.15	663
	39	12.5*20	0.15	795
	47	12.5*20	0.15	980
	68	12.5*20	0.15	1188
		12.5*25	0.15	1238
	82	16*20	0.15	1385
	100	16*20	0.15	1436
		16*25	0.15	1489
	150	16*25	0.15	1920
		16*30	0.15	1966
		18*25	0.15	1977
	220	18*25	0.15	2386
		18*30	0.15	2455
	330	18*35	0.15	2795
		18*40	0.15	2864
250(2E)	4.7	8*12	0.15	175
	5.6	10*12	0.15	213
	6.8	10*12	0.15	275
	10	10*20	0.15	350
	22	10*20	0.15	513
	33	12.5*20	0.15	763
	39	12.5*20	0.15	813
	47	12.5*20	0.15	950
		12.5*25	0.15	1013
	68	16*20	0.15	1295
	82	16*20	0.15	1375
		16*30	0.15	1425
	100	16*25	0.15	1545
		18*25	0.15	1591
	150	18*25	0.15	1968
	220	18*31	0.15	2341
		18*40	0.15	2591

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	tanδ	Rated ripple current (mArms/105°C,100kHz)
350(2V)	4.7	8*12	0.20	163
	5.6	10*12	0.20	225
	6.8	10*12	0.20	265
	10	10*16	0.20	313
	22	12.5*20	0.20	563
	33	16*20	0.20	885
	39	16*20	0.20	963
	47	16*20	0.20	1075
		16*25	0.20	1113
	68	16*25	0.20	1413
		18*20	0.20	1375
		18*25	0.20	1425
	82	18*25	0.20	1520
	100	18*25	0.20	1591
		18*30	0.20	1648
	120	18*30	0.20	1877
	150	18*35	0.20	2045
400(2G)	1	8*12	0.20	75
	2.2	8*12	0.20	113
	3.3	10*12	0.20	200
	4.7	10*12	0.20	238
	6.8	10*12	0.20	255
	10	10*16	0.20	325
	15	12.5 *20	0.20	463
	22	12.5*20	0.20	613
		12.5*25	0.20	638
	33	16*20	0.20	870
	39	16*25	0.20	1013
	47	16*25	0.20	1150
		18*20	0.20	1138
		16*30	0.20	1200
	56	10*50	0.20	1300
	68	12.5*40	0.20	1500
		18*25	0.20	1475
	82	12.5*45	0.20	1563
		18*25	0.20	1525
		18*30	0.20	1575
	100	12.5*50	0.20	1795
		18*31	0.20	1739
		18*35	0.20	1784
	120	18*35	0.20	1932
	150	18*40	0.20	2080
450(2W)	6.8	10*16	0.20	240
	10	10*20	0.20	313
	15	12.5*20	0.20	500
	22	16*20	0.20	638
	33	10*40	0.20	888
		16*25	0.20	945
		18*20	0.20	938
	39	10*45	0.20	1038
		18*25	0.20	1013
	47	12.5*40	0.20	1263
		18*25	0.20	1240
	56	12.5*40	0.20	1375
	68	18*30	0.20	1525
	82	12.5*50	0.20	1825
		18*35	0.20	1800
	100	18*40	0.20	1830

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