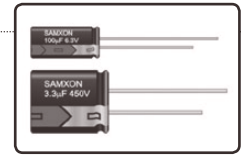


FEATURES

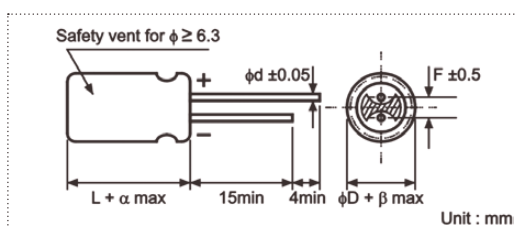
- High CV value, guarantee 2,000 hours load life at 85°C.
- Suitable for use in electronic circuits in colour TV receiver, video recorder etc.



SPECIFICATIONS

[illegible]

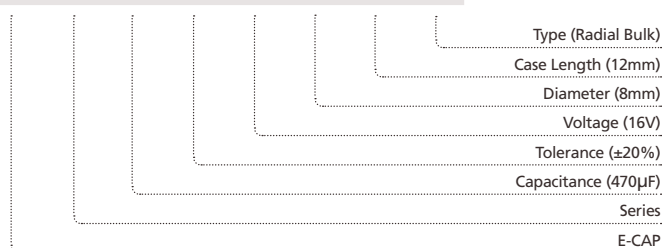
CASE SIZE TABLE



ϕD	8 (L <20)	8 (L $\geq$ 20)	10	12.5	16	18	22	25
F	3.5	3.5	5.0	5.0	7.5	7.5	10.0	12.5
ϕd	0.5	0.6	0.6	0.6	0.8	0.8	0.8	1.0
α	(L <20) 1.5					(L $\geq$ 20) 2.0		
β	(D <20) 0.5					(D $\geq$ 20) 1.0		

PART NUMBER SYSTEM (EXAMPLE : 16V 470μF)

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	GS	477	M	1C	F	12	RR



STANDARD RATINGS

Voltage (Code)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
220	227							8 x 12	370
330	337							8 x 12	453
470	477					8 x 12	499	10 x 12.5	628
680	687	8 x 12	503	8 x 12	546	10 x 12.5	690	10 x 16	826
1000	108	8 x 12	610	10 x 12.5	791	10 x 16	928	10 x 20	1094
1500	158	10 x 12.5	780	10 x 16	875	10 x 20	1025	12.5 x 20	1210
2200	228	10 x 16	890	10 x 20	1226	12.5 x 20	1555	12.5 x 25	1800
3300	338	10 x 20	1350	12.5 x 20	1685	12.5 x 25	1990	16 x 25	2304
4700	478	12.5 x 20	1822	12.5 x 25	2103	16 x 25	2487	16 x 30	2854
6800	688	12.5 x 25	1930	16 x 25	2606	16 x 30	3010	16 x 40	3528
								18 x 35	3546
10000	109	16 x 25	2760	16 x 30	2960	16 x 35	3490		
15000	159	16 x 35	2860	16 x 40	3100				
22000	229	18 x 40	3400						

Maximum Allowable Ripple Current (mArms) at 85°C 120Hz

Case Size Φ D x L (mm)

Voltage (Code)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
33	336							8 x 12	187
47	476							10 x 12.5	259
68	686					8 x 12	220	10 x 16	290
100	107			8 x 12	306	8 x 12	321	10 x 20	453
220	227	8 x 12	405	10 x 12.5	506	10 x 16	615	12.5 x 20	742
330	337	10 x 12.5	576	10 x 16	706	10 x 20	823	12.5 x 25	987
470	477	10 x 16	753	10 x 20	811	12.5 x 20	1153	16 x 25	1394
680	687	10 x 20	988	12.5 x 20	988	12.5 x 25	1512	16 x 30	1400
1000	108	12.5 x 20	1407	12.5 x 25	1715	16 x 25	2037	18 x 35	1995
2200	228	16 x 25	2134	16 x 30	2320	18 x 35	2300		
3300	338	16 x 30	2338	18 x 35	3218	18 x 40	2500		
4700	478	18 x 35	3400	18 x 40	3336				
5600	568	18 x 40	3411						
6800	688	18 x 40	3500						

Maximum Allowable Ripple Current (mArms) at 85°C 120Hz

Case Size Φ D x L (mm)

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

STANDARD RATINGS

Voltage (Code)		160V (2C)		200V (2D)		250V (2E)		350V (2V)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
3.3	335							8 x 12	56
4.7	475							10 x 12.5	77
10	106	8 x 12	82	8 x 12	90	10 x 12.5	113	10 x 16	120
22	226	10 x 16	150	10 x 16	168	10 x 20	185	12.5 x 20	233
33	336	10 x 20	243	10 x 20	245	10 x 20	198	16 x 25	312
47	476	10 x 20	307	12.5 x 20	343	12.5 x 20	235	16 x 25	413
68	686	12.5 x 20	350	12.5 x 25	350	16 x 25	380	16 x 25	450
100	107	12.5 x 25	541	16 x 25	601	16 x 25	572	18 x 35	518
220	227	16 x 30	976	16 x 35	1138				
330	337	18 x 35	1346	18 x 35	1324				

Maximum Allowable Ripple Current (mArms) at 85°C 120Hz

Case Size Φ D x L (mm)

Voltage (Code)		400V (2G)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current
2.2	225	8 x 12	47	8 x 12	40
3.3	335	8 x 12	55	10 x 12.5	54
4.7	475	10 x 12.5	73	10 x 16	72
10	106	10 x 16	120	10 x 20	98
22	226	12.5 x 20	230	12.5 x 25	202
33	336	16 x 25	345	16 x 25	271
47	476	16 x 25	437	16 x 30	355
68	686	16 x 30	500	18 x 35	360
82	826	16 x 30	550	18 x 40	385
100	107	18 x 35	720		

Maximum Allowable Ripple Current (mArms) at 85°C 120Hz

Case Size Φ D x L (mm)

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

Rated Voltage	Coefficient Cap (μF)	Freq. (Hz)	50	120	300	1k	10k~
6.3~100V	≤47		0.75	1.00	1.35	1.57	2.00
	68~470		0.80	1.00	1.23	1.34	1.50
	≥560		0.85	1.00	1.10	1.13	1.15
160~450V	2.2~220		0.80	1.00	1.25	1.40	1.60
	≥270		0.90	1.00	1.10	1.13	1.15

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.

Index

* Automotive

Taping Specifications (編帶產品規格)

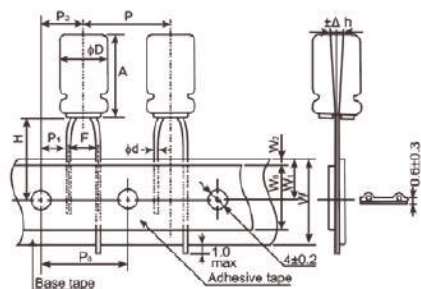


Fig-1

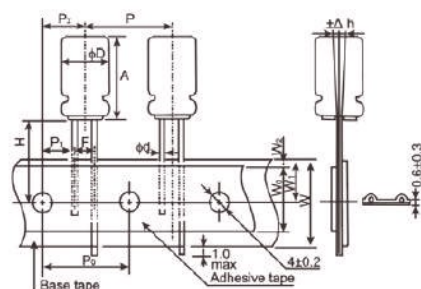


Fig-2

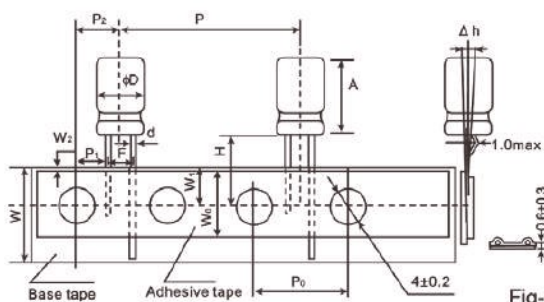


Fig-3

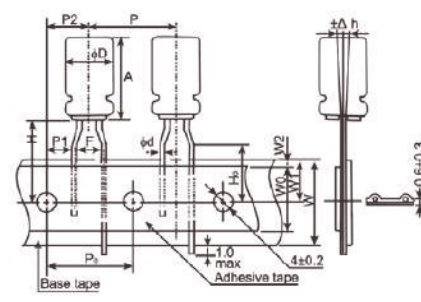
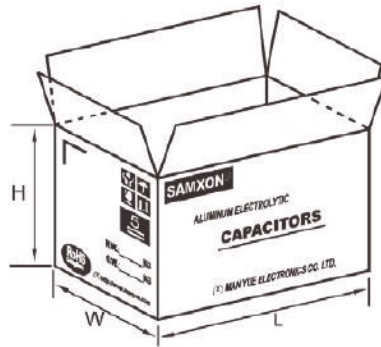


Fig-4

SPECIFICATIONS

Item		Dimensions (mm)														
Reference figure		Fig 1				Fig 2				Fig 3		Fig 4				Tol.
Diameter	D	3	4 ~ 5	5	6.3	8	10	12.5	16, 18	4, 5, 6.3	5, 6.3	8	11 ~ 20			
Height	A	5	5 ~ 7	9 ~ 15	5 ~ 7	9 ~ 15	11 ~ 20	9 ~ 21	15 ~ 35	15 ~ 40	5 ~ 7	9 ~ 15	5 ~ 9	11 ~ 20		
Lead Diameter	d	0.4	0.45	0.5	0.45	0.5	0.5	0.6	0.6	0.8	0.45	0.5	0.45	0.5	±0.05	
Component Spacing	P	12.7	12.7	12.7	12.7	12.7	12.7	15	30	12.7	12.7	12.7	12.7	±1.0		
Pitch of sprocket holes	P0	12.7	12.7	12.7	12.7	12.7	12.7	15	15	12.7	12.7	12.7	12.7	±0.2		
Distance between centres of component leads	F	2.5	2.5	3.5	5.0	5.0	7.5	5.0	5.0	5.0	5.0	5.0	5.0	±0.5		
Carrier tape width	W	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	±0.5		
Distance between the center of upper edge of carrier tape and sprocket holes	W1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	±0.5		
Distance between the abscissa and the bottom of the components body	H	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	17.5	18.5	17.5	20.0	±0.75		
Distance between the abscissa and the reference plane of the components with crimped leads	H0	-	-	-	-	-	-	-	-	16.0	16.0	16.0	16.0	±0.5		
Hold down tape width	W0	7.0	7.0	7.0	7.0	7.0	12	12	7.0	7.0	7.0	7.0	7.0	Min.		
Max. lateral deviation of the component body vertical to the tape plane	Δh	0	0	0	0	0	0	0	0	0	0	0	0	±1.0		
Distance between the upper edges of the carrier tape and the hold down tape	W2	0 ~ 3	0 ~ 3	0 ~ 3	0 ~ 3	0 ~ 3	0 ~ 3	0 ~ 3	0 ~ 3	0 ~ 3	0 ~ 3	0 ~ 3	0 ~ 3	-		
Distance between center of terminal and the sprocket holes	P1	5.1	5.1	4.6	3.85	5.0	3.75	3.85	3.85	3.85	3.85	3.85	3.85	±0.5		
Distance between center of the component and sprocket holes	P2	6.35	6.35	6.35	6.35	7.5	7.5	6.35	6.35	6.35	6.35	6.35	6.35	±1.0		

Packing Specifications (包裝規格)



PACKING QUANTITY (TAPING TYPE)

ΦD x L (mm)	L (mm)	W (mm)	H (mm)	Inner Box Quantity	Outer Box Quantity
3 x 5	330	229	51	3,000	30,000
4 x 5 ~ 7	330	229	51	2,500	25,000
5 x 5 ~ 11	330	229	51	2,000	20,000
6.3 x 5 ~ 12	330	229	51	1,500	15,000
8 x 5 ~ 12	330	229	51	1,000	10,000
8 x 14 ~ 20	330	229	64	1,000	8,000
10 x 12.5	330	191	51	500	5,000
10 x 16	330	191	56	500	5,000
10 x 20 ~ 25	323	191	64	500	4,000
10 x 30	330	191	69	500	4,000
12.5 x 20	325	267	58	500	2,000
12.5 x 25	325	270	63	500	2,000
12.5 x 35	325	270	74	500	2,000
16 x 25	315	221	63	250	1,000
16 x 30 ~ 35	315	221	76	250	1,500
18 x 20 ~ 25	343	275	63	250	1,000
18 x 30 ~ 35	343	275	73	250	500
18 x 40	343	275	73	250	500

PACKING QUANTITY (BULK TYPE)

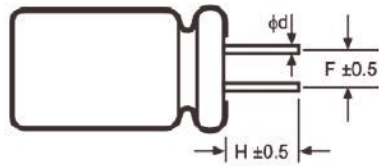
Long Lead Wire Product			
ΦD x L (mm)	Plastic Bag Quantity	Inner Box Quantity	Outer Box Quantity
3 x 5	1,000	24,000	96,000
4 x 5	1,000	16,000	64,000
4 x 7	1,000	14,000	56,000
5 x 5	1,000	12,000	48,000
5 x 7	1,000	10,000	40,000
5 x 11	1,000	8,000	32,000
6.3 x 5 ~ 7	1,000	8,000	32,000
6.3 x 11	1,000	6,000	24,000
8 x 5 ~ 7	1,000	6,000	24,000
8 x 9	500	4,000	16,000
8 x 10 ~ 16	500	3,000	12,000
8 x 20	200	1,600	6,400
8 x 25	200	1,200	4,800
10 x 12.5	400	2,400	9,600
10 x 15 ~ 20	200	1,200	7,200
10 x 25 ~ 30	200	1,200	4,800
12.5 x 20	150	1,200	4,800
12.5 x 25	150	900	3,600
12.5 x 30 ~ 35	100	600	2,400
12.5 x 40	—	300	1,800
16 x 20	—	200	2,000
16 x 25 ~ 30	—	200	1,600
16 x 35 ~ 40	—	200	1,200
18 x 15 ~ 20	—	150	1,500
18 x 25 ~ 30	—	150	1,200
18 x 35 ~ 50	—	150	900

PACKING QUANTITY (SNAP-IN)

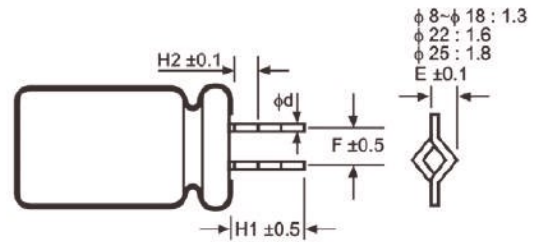
Snap-in Terminal Product					
ΦD x L (mm)	Inner Box Quantity	Outer Box Quantity	ΦD x L (mm)	Inner Box Quantity	Outer Box Quantity
20 x 25	100	1,200	25 x 30 ~ 35	100	800
20 x 30 ~ 40	100	1,000	25 x 40 ~ 50	100	600
22 x 25	100	1,200	30 x 30 ~ 35	50	500
22 x 30 ~ 40	100	1,000	30 x 40 ~ 50	50	400
22 x 45 ~ 50	100	800	35 x 30 ~ 35	40	400
25 x 25	100	1,000	35 x 40 ~ 50	40	320



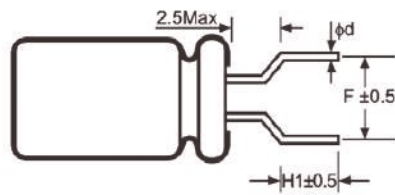
Lead Forming Specifications (成型產品規格)



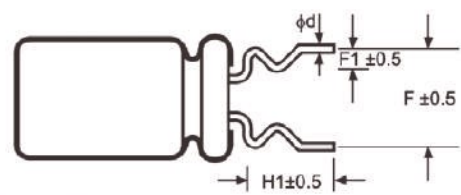
TYPE CB



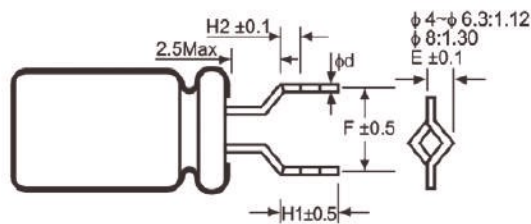
TYPE KD



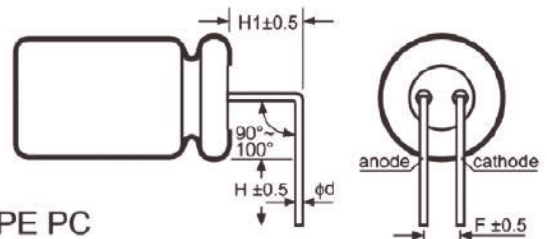
TYPE HE



TYPE EC



TYPE FD



TYPE PC

SHAPE CODE	ΦD	4	5	6.3	8 (L > 5mm)	10	13	16	18
CB	F	1.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5
	H	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	Φd ±0.05	0.45	0.5	0.5	0.5	0.6	0.6	0.8	0.8
HE	F	5.0	5.0	5.0	5.0	-	-	-	-
	H1	5.0	5.0	5.0	5.0	-	-	-	-
	Φd ±0.05	0.45	0.5	0.5	0.5	-	-	-	-
FD	F	5.0	5.0	5.0	5.0	-	-	-	-
	H1	4.5	4.5	4.5	4.5	-	-	-	-
	H2	1.8	1.8	1.8	1.8	-	-	-	-
	Φd ±0.05	0.45	0.5	0.5	0.5	-	-	-	-
KD	E	1.12	1.12	1.12	1.30	-	-	-	-
	F	-	-	-	-	5.0	5.0	7.5	7.5
	H1	-	-	-	-	4.5	4.5	4.5	4.5
	H2	-	-	-	-	2.0	2.0	2.0	2.0
	Φd ±0.05	-	-	-	-	0.6	0.6	0.8	0.8
EC	E	-	-	-	-	1.30	1.30	1.30	1.30
	F	5.0	5.0	5.0	5.0	-	-	-	-
	F1	1.2	1.2	1.2	1.2	-	-	-	-
	H1	4.0	4.0	4.0	4.0	-	-	-	-
PC	Φd ±0.05	0.45	0.5	0.5	0.5	-	-	-	-
	F	-	2.0	2.5	3.5	5.0	5.0	7.5	7.5
	H	-	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	H1	-	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	Φd ±0.05	-	0.5	0.5	0.5	0.6	0.6	0.8	0.8