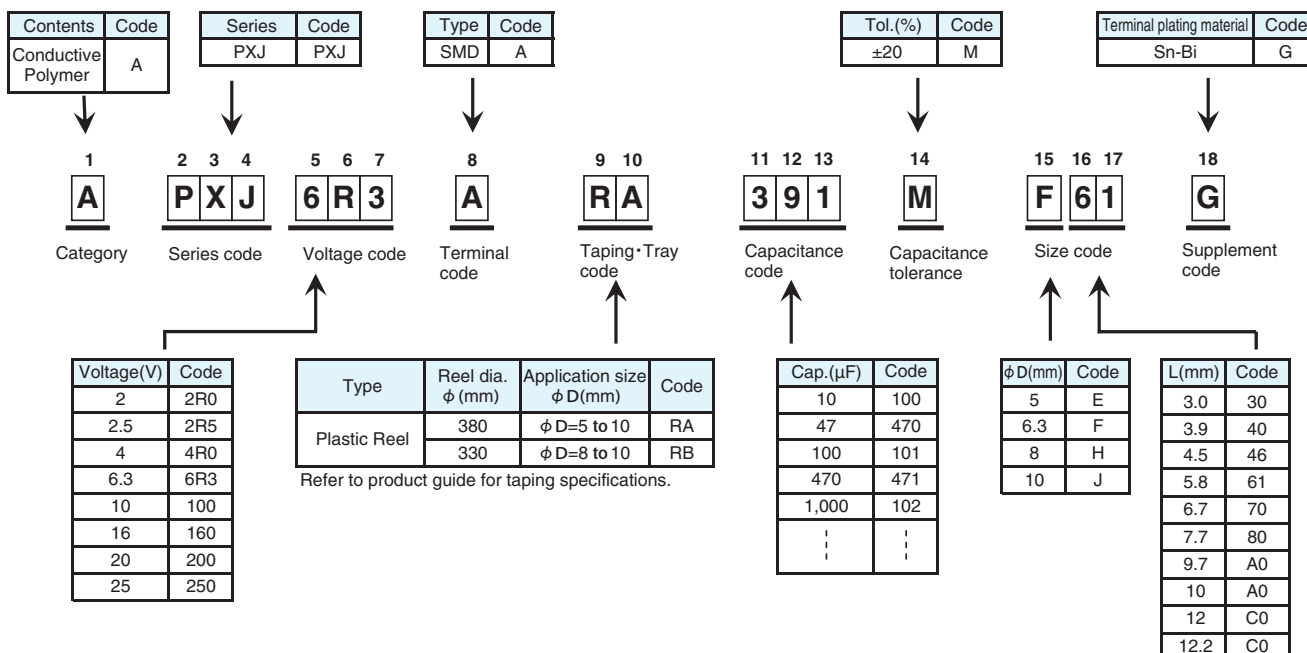


Product code guide (Conductive polymer Surface mount type)

(Example : PXJ series, 6.3V-390μF, φ6.3×5.8L)

Please refer to the following table

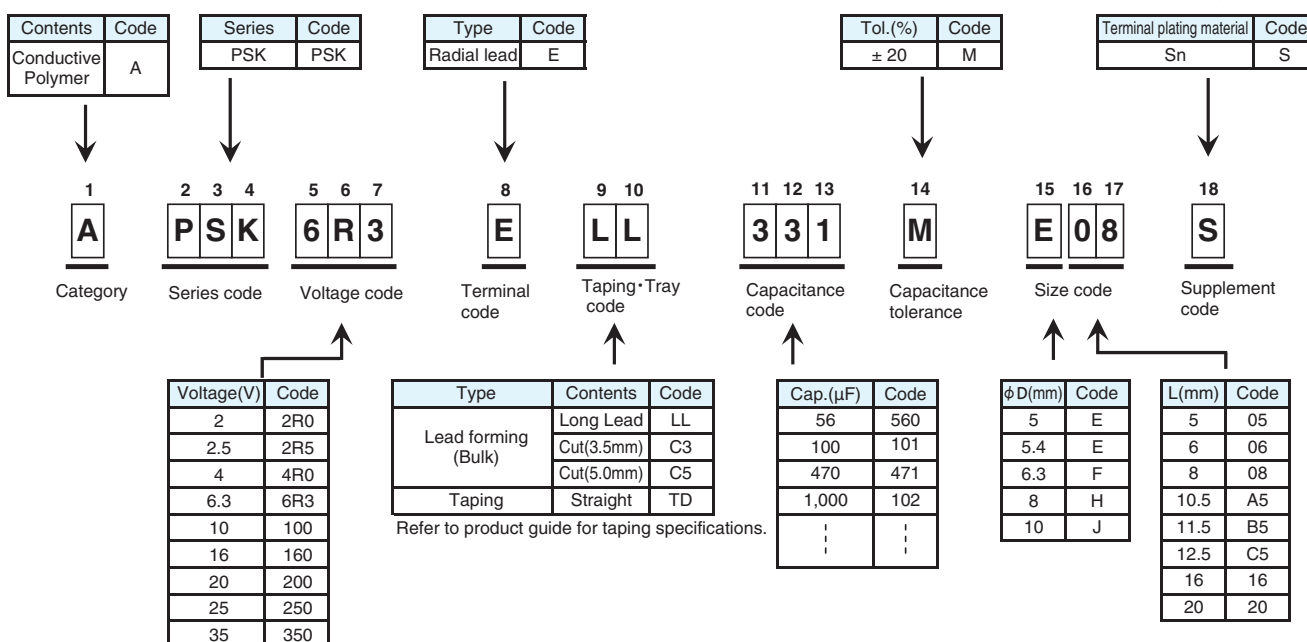


*Refer to the appendix (Part number) for codes not listed here.

Product code guide (Conductive polymer Radial lead type)

(Example : PSK series, 6.3V-330μF, φ5×8L, Long Lead with bulk)

Please refer to the following table



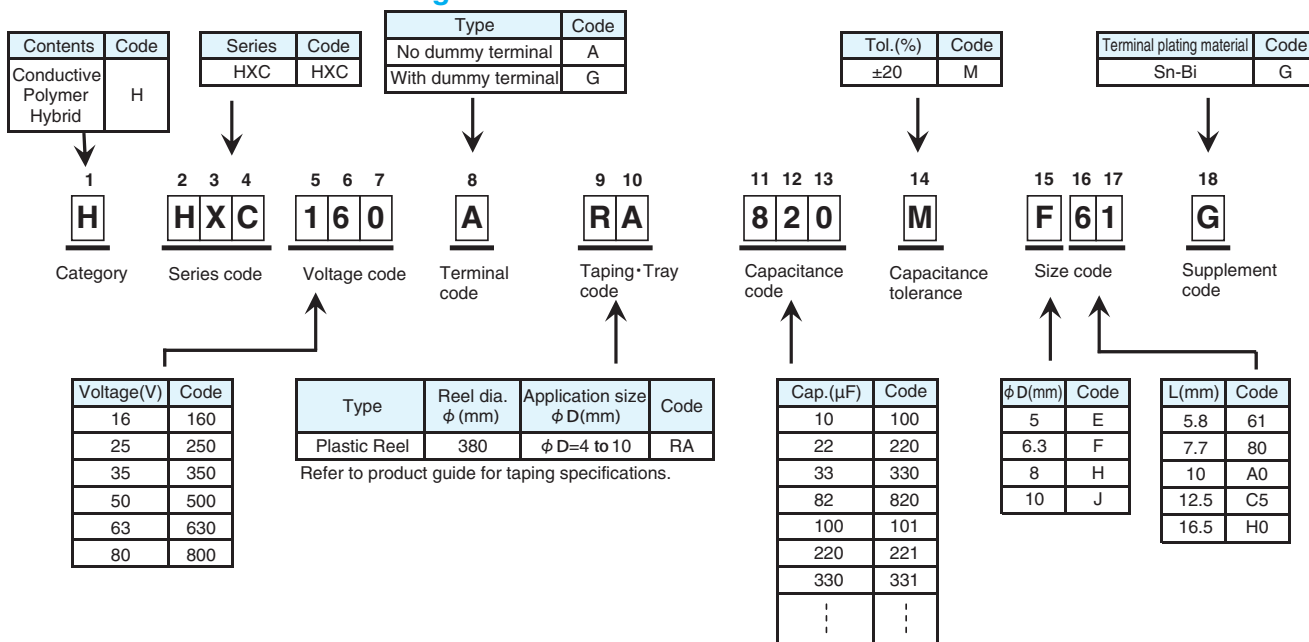
*Refer to the appendix (Part number) for codes not listed here.

Product code guide (Conductive polymer hybrid Surface mount type)

(Example : HXC series, 16V-82μF, φ6.3×5.8L)



Please refer to the following table



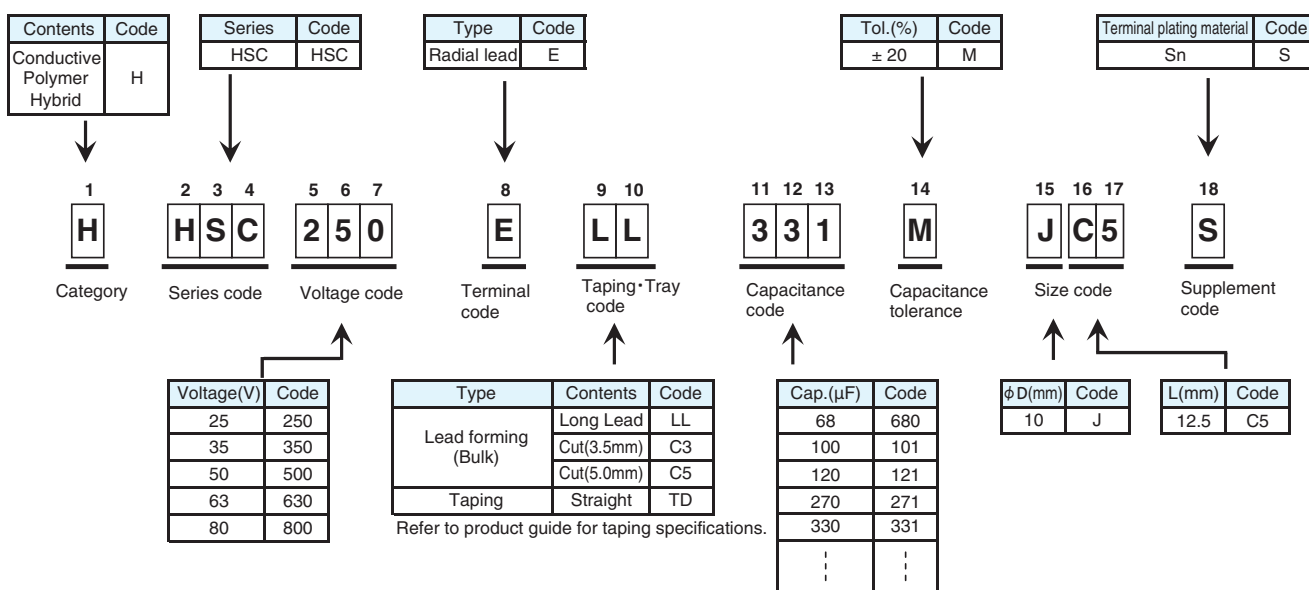
*Refer to the appendix (Part number) for codes not listed here.

Product code guide (Conductive polymer hybrid Radial lead type)

(Example : HSC series, 25V-330μF, φ10×12.5L, Long Lead with bulk)



Please refer to the following table



*Refer to the appendix (Part number) for codes not listed here.

Product code guide (Surface mount type)

(Example : MVE series, 25V-47 μ F, ϕ 6.3 $\times$ 5.2L)

Please refer to the following table



Contents	Code	Series	Code	Type	Code	Tol.(%)	Code	Terminal plating material	Code
Polar	E	MVE	MVE	No dummy terminal	A	± 20	M	Sn-Bi	G
				With dummy terminal	G			Sn	S

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
E	M	V	E	2	5	0	A	R	A	4	7	0	M	F	5	5	G
Category	Series code			Voltage code			Terminal code	Taping · Tray code		Capacitance code			Capacitance tolerance	Size code		Supplement code	

Voltage(V)	Code
4	4R0
6.3	6R3
10	100
25	250
100	101
⋮	⋮

Taping type	Reel dia. ϕ (mm)	Application size ϕ D (mm)	Code
Taping (Plastic Reel)	380	ϕ D=4 to 18	RA
Tray	-	ϕ D=12.5 to 18	TR

Refer to product guide for taping and tray specifications.

Cap.(μ F)	Code
1.0	1R0
4.7	4R7
10	100
47	470
100	101
470	471
1,000	102
⋮	⋮

ϕ D (mm)	Code
4	D
5	E
6.3	F
8	H
10	J
12.5	K
16	L
18	M

L (mm)	Code
5.2	55
5.7	60
5.8	61
6.3	63
7.0	73
7.7	80
8.7	90
10	A0
13.5	E0
16	G5
16.5	H0
21.5	N0

*Refer to the appendix (Part number) for codes not listed here.

Product code guide (Radial lead type)

(Example : KMQ series, 100V-100 μ F, ϕ 10 $\times$ 16L, Long lead with bulk)

Please refer to the following table

Contents	Code	Series	Code	Type	Code	Tol.(%)	Code	Sleeve materia	Terminal plating material	Code
Polar	E	KMQ	KMQ	Radial lead	E	± 20	M	PET	Sn-Bi	D
		KY	KY-			-10 to +20	V		Sn	S
								Sleeveless (Coating case)	Sn-Bi	G
									Sn	H

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
E	K	M	Q	1	0	1	E	L	L	1	0	1	M	J	1	6	S
Category	Series code			Voltage code			Terminal code	Lead forming/Taping code		Capacitance code		Capacitance tolerance		Size code		Supplement code	

Voltage(V)	Code
6.3	6R3
10	100
25	250
100	101
250	251
⋮	⋮

Type	Contents	Code
Lead forming (Bulk)	Long Lead	LL
	Cut(3.5mm)	C3
	Cut(5.0mm)	C5
	Forming Cut	FC
		IJ
	Snap-in ϕ D=5 to 8	FM
	Snap-in ϕ D=10 to 18	MC
Taping	Horizontal	BC
		BD
	Straight	TD
	Gradual forming	
	Straight(Skip a hole)	TE
	Forming(F=5.0mm)	TC

Cap.(μ F)	Code
1.0	1R0
4.7	4R7
10	100
47	470
100	101
470	471
1,000	102
⋮	⋮

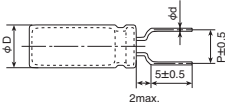
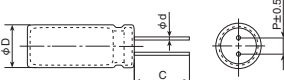
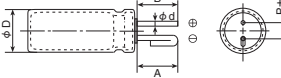
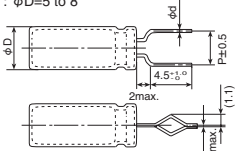
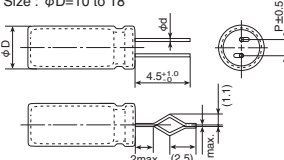
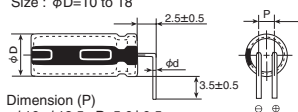
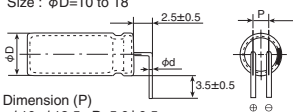
ϕ D(mm)	Code
5	E
6.3	F
8	H
10	J
12.5	K
14.5	U
16	L
18	M

L(mm)	Code
11	11
11.5	B5
12.5	C5
13	13
15	15
16	16
20	20
25	25
30	30
31.5	N3
35	35
35.5	P1
40	40
45	45
50	50

Refer to product guide for lead forming and taping specifications.

*Refer to the appendix (Part number) for codes not listed here.

CUT/FORMED LEAD

Terminal type	Terminal type	Terminal type												
●Lead code : FC (Forming Cut type) Size : ϕD=5 to 8 	●Lead code : C3 (Cutting type) Size : ϕD=5 to 18  Dimension (C) • ϕD= 5 to 8: C3: 3.5 ± 0.5(Second standard C5: 5.0 ± 0.5) • ϕD=10 to 18: C3: 3.5 ± 0.5(Second standard C5: 5.0 ± 1.0)	●Lead code : IJ (Forming Cut type) Size : ϕD=10 to 18  Dimension <table border="1"><thead><tr><th>ϕD</th><th>A・B</th><th>ϕd</th><th>P</th></tr></thead><tbody><tr><td>10 to 12.5</td><td>3.2 ± 0.5</td><td>0.6</td><td>5.0 ± 0.5</td></tr><tr><td>14.5 to 18</td><td>3.2 ± 0.5</td><td>0.8</td><td>7.5 ± 0.5</td></tr></tbody></table>	ϕ D	A・B	ϕ d	P	10 to 12.5	3.2 ± 0.5	0.6	5.0 ± 0.5	14.5 to 18	3.2 ± 0.5	0.8	7.5 ± 0.5
ϕ D	A・B	ϕ d	P											
10 to 12.5	3.2 ± 0.5	0.6	5.0 ± 0.5											
14.5 to 18	3.2 ± 0.5	0.8	7.5 ± 0.5											
●Lead code : FM (Snap-in type) Size : ϕD=5 to 8 	●Lead code : MC (Snap-in type) Size : ϕD=10 to 18 	*1 Please consult with us about other terminal forming. *2 Please refer to dimensions of each series for gas escape end seal. *3 Conventionally, lead forming code is used in common by (BC) for two type of the lead bent directions. We added lead forming code (BD) newly and clarified the lead bent directions. Please place an order after the choice for an appropriate lead forming code depending on condition of use.												
●Lead code : BC (Horizontal type)*3 Size : ϕD=10 to 18  Dimension (P) • ϕ10, ϕ12.5 : $P=5.0 \pm 0.5$ • ϕ14.5, ϕ16, ϕ18 : $P=7.5 \pm 0.5$	●Lead code : BD (Horizontal type)*3 Size : ϕD=10 to 18  Dimension (P) • ϕ10, ϕ12.5 : $P=5.0 \pm 0.5$ • ϕ14.5, ϕ16, ϕ18 : $P=7.5 \pm 0.5$													

Product code guide (Snap-in type)

(Example : KMS series, 400V-330μF, φ30×30L)

Please refer to the following table



For more details, refer to Product Guide.

Contents	Code	Series	Code	Type	Code	Tol.(%)	Code	Sleeve material	Terminal plating material	Code
Polar	E	KMS	KMS	Snap-in	VS	±20	M	PET	Sn	S
				Snap-in	VN			PVC		M
				Flat terminal for PCB	LI					
				For Connector	LR					
				Horizontal	LC					
				Straight	VR					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
E	K	M	S	4	0	1	V	S	N	3	3	1	M	R	3	0	S
Category	Series code			Voltage code			Terminal code		Dummy terminal code	Capacitance code			Capacitance tolerance	Size code		Supplement code	

Voltage(V)	Code
6.3	6R3
10	100
25	250
100	101
250	251
315	3B1
...	...

Terminal #	Code
0	N
1	S
2	D
3	T

Cap.(μF)	Code
39	390
47	470
100	101
470	471
1,000	102
4,700	472
10,000	103
...	...

φD(mm)	Code
22	P
25.4	Q
30	R
35	A
40	B

L(mm)	Code
20	20
25	25
30	30
35	35
40	40
45	45
50	50
55	55
60	60

*Refer to the appendix (Part number) for codes not listed here.

Available terminals

[mm]

Terminal, Dummy code : VNN D=φ22 to φ35 PC board pin-out (View from Solder side)	Terminal, Dummy code : LIN D=φ30 to φ40 PC board pin-out (View from Solder side)	Terminal, Dummy code : VEN D=φ30, φ35 PC board pin-out (View from Solder side)
Terminal, Dummy code : VRD D=φ35, φ40 PC board pin-out (View from Solder side) B : Positive, A, C : Dummy	Terminal, Dummy code : VND D=φ35, φ40 PC board pin-out (View from Solder side) B : Positive, A, C : Dummy	Terminal, Dummy code : LIS D=φ50 PC board pin-out (View from Solder side) A : Dummy
Horizontal mounting Terminal, Dummy code : LCN D=φ22×30 to 50L PC board pin-out (View from Solder side) Negative mark		

*1 Negative terminal : Mesh marking

*2 Use the dummy terminals for mechanical support only.

The dummy terminals must not be connected to any circuit trace on PC board, be sure to electrically isolate from the negative and the positive terminals.

Product code guide (Screw mount terminal type)

(Example : KMH series, 400V-3,300 μ F, ϕ 63.5 $\times$ 120L, Without mounting clamp)

Please refer to the following table



Contents	Code	Series	Code	Type	Code	Tol.(%)	Code	Sleeve Material	Plastic disk	Code
Polar	E	KMH	KMH	Screw terminal	LG	± 20	M	PVC	Provided	U

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
E	K	M	H	4	0	1	L	G	N	3	3	2	M	D	C	0	U
Category	Series code			Voltage code			Terminal code	Mounting clamp code		Capacitance code			Capacitance tolerance	Size code		Supplement code	

Voltage(V)	Code
10	100
25	250
100	101
250	251
315	3B1
525	5C1
⋮	⋮

Type	Code
	B
	C
Without clamp	N

Cap.(μ F)	Code
100	101
470	471
1,000	102
4,700	472
10,000	103
47,000	473
100,000	104
⋮	⋮

ϕ D(mm)	Code
35	A
50	C
63.5	D
76.2	E
89	F
100	G

L(mm)	Code
50	50
55	55
60	60
65	65
75	75
80	80
85	85
90	90
95	95
96	96
100	A0
105	A5
110	B0
115	B5
120	C0
125	C5
130	D0
140	E0
145	E5
155	F5
170	H0
190	K0
210	M0
220	N0
250	R0
270	T0

*Refer to the appendix (Part number) for codes not listed here.



PART NUMBERING SYSTEM

Part numbering system

Our part numbering system is common to all of Nippon Chemi-Con's subsidiaries worldwide, and has been switching the conventional part numbering system. The part number uses 18-digit codes to express information of principal product specifications such as product category, series name, rated voltage, capacitance, case size and RoHS compliance.

●Categories

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

Code	Details
A	Conductive Polymer Aluminum Solid Capacitors (Polar)
H	Conductive Polymer Hybrid Aluminum Electrolytic Capacitors (Polar)
E	Aluminum Electrolytic Capacitors (Polar)
K	Multilayer Ceramic Capacitors
F	Film Capacitors
D	Electric Double Layer Capacitors
T	Metal Oxide Varistors
L	Amorphous Choke Coils

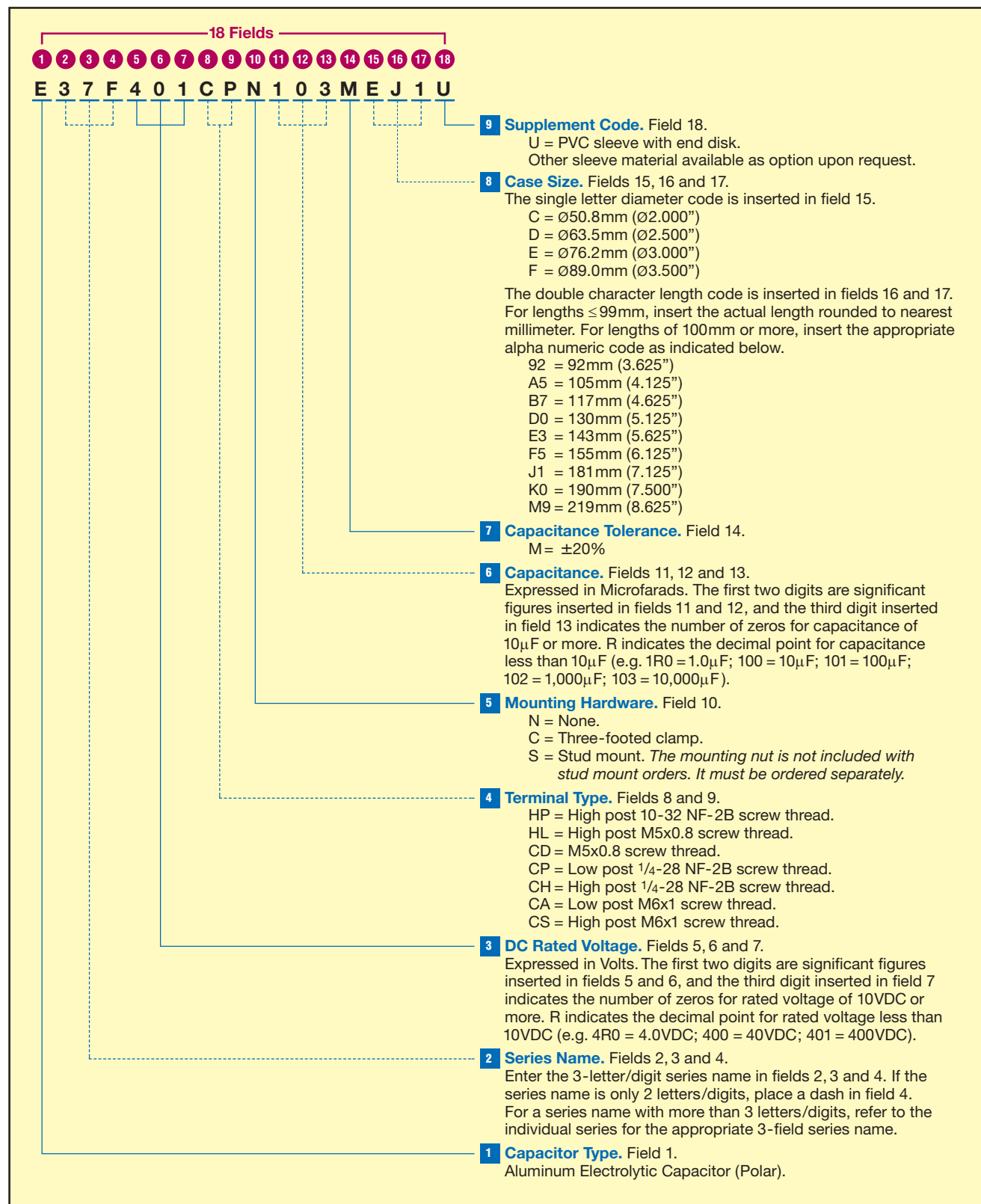
* For digits 2 to 18, please see "Product code guide".

●Example

Product type	Part number (Example)	Conventional part number (Ref.)
Surface mount type	EMVE160ADA100MD55G	MVE16VC10MD55E0
Radial lead type	EKMQR3ETC102MHB5D	TC04RKMQR6.3VB1000MF50E0
Snap-in type	EKMQR201VSN471MP30S	KMQ200VSSN470M22BE0
Screw mount terminal type	ERWE551LGC821MCD0U	RWE550LGSN820MCC13EA

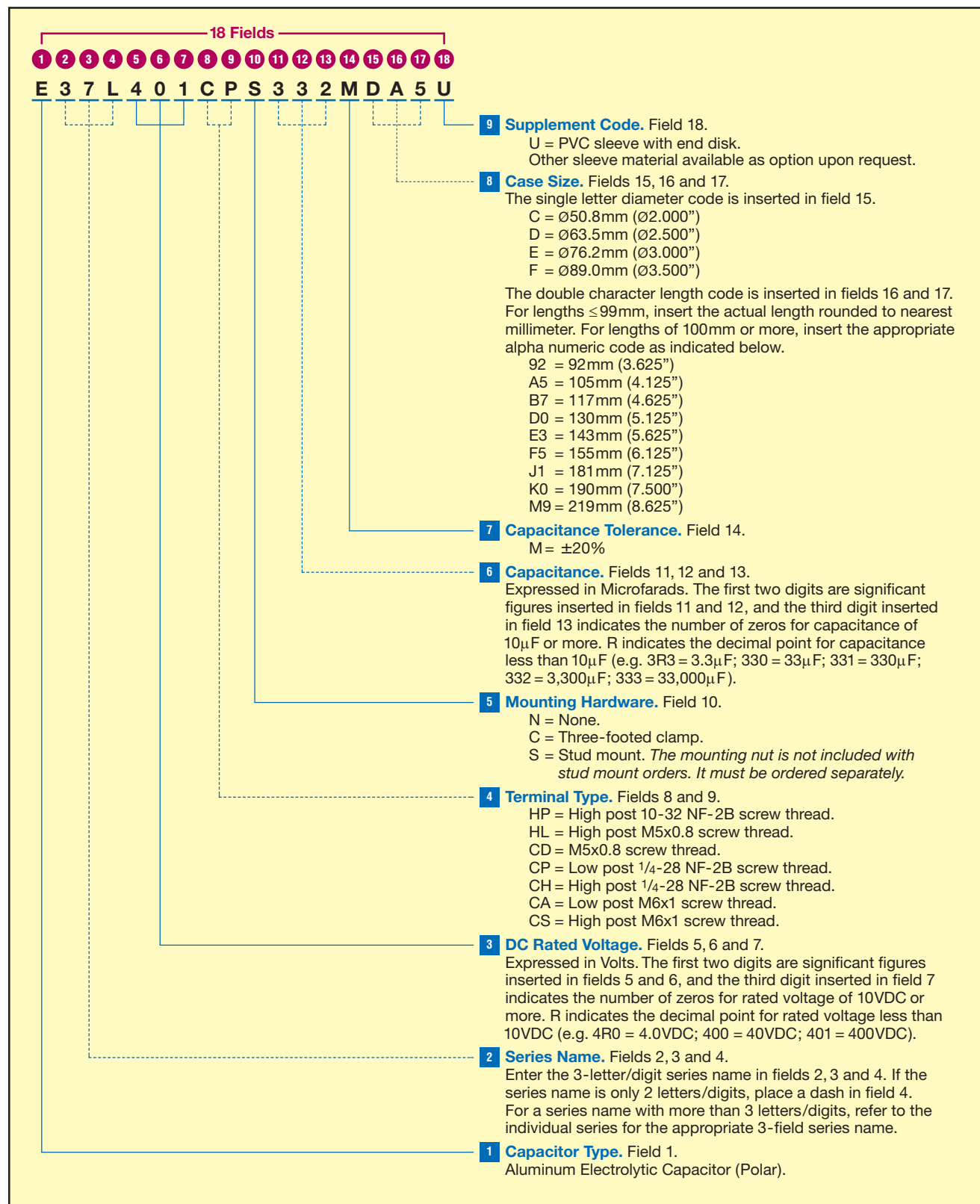
U37F Series

Part Numbering System for U37F Series When ordering, always specify complete 18-field global part number.



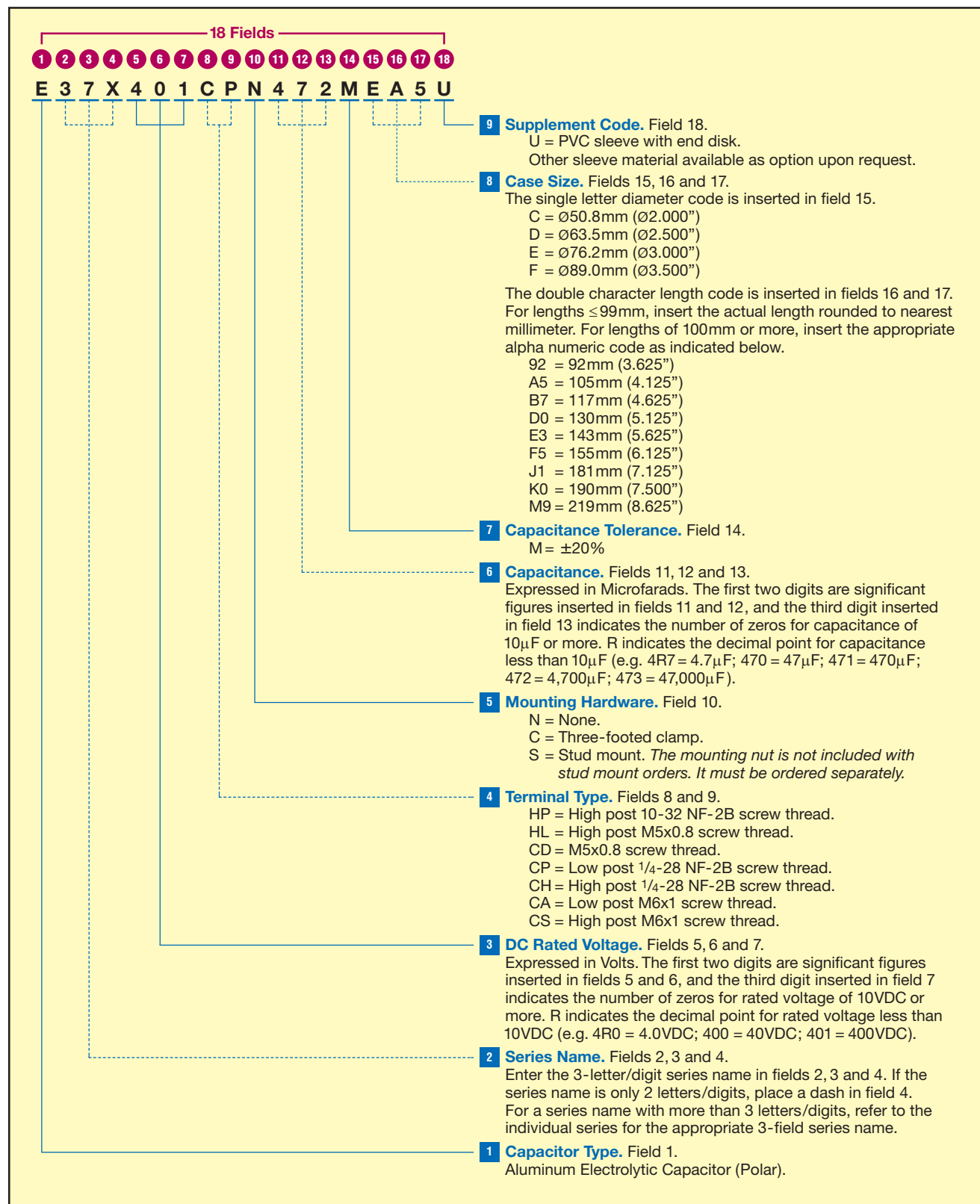
U37L Series

Part Numbering System for U37L Series When ordering, always specify complete 18-field global part number.



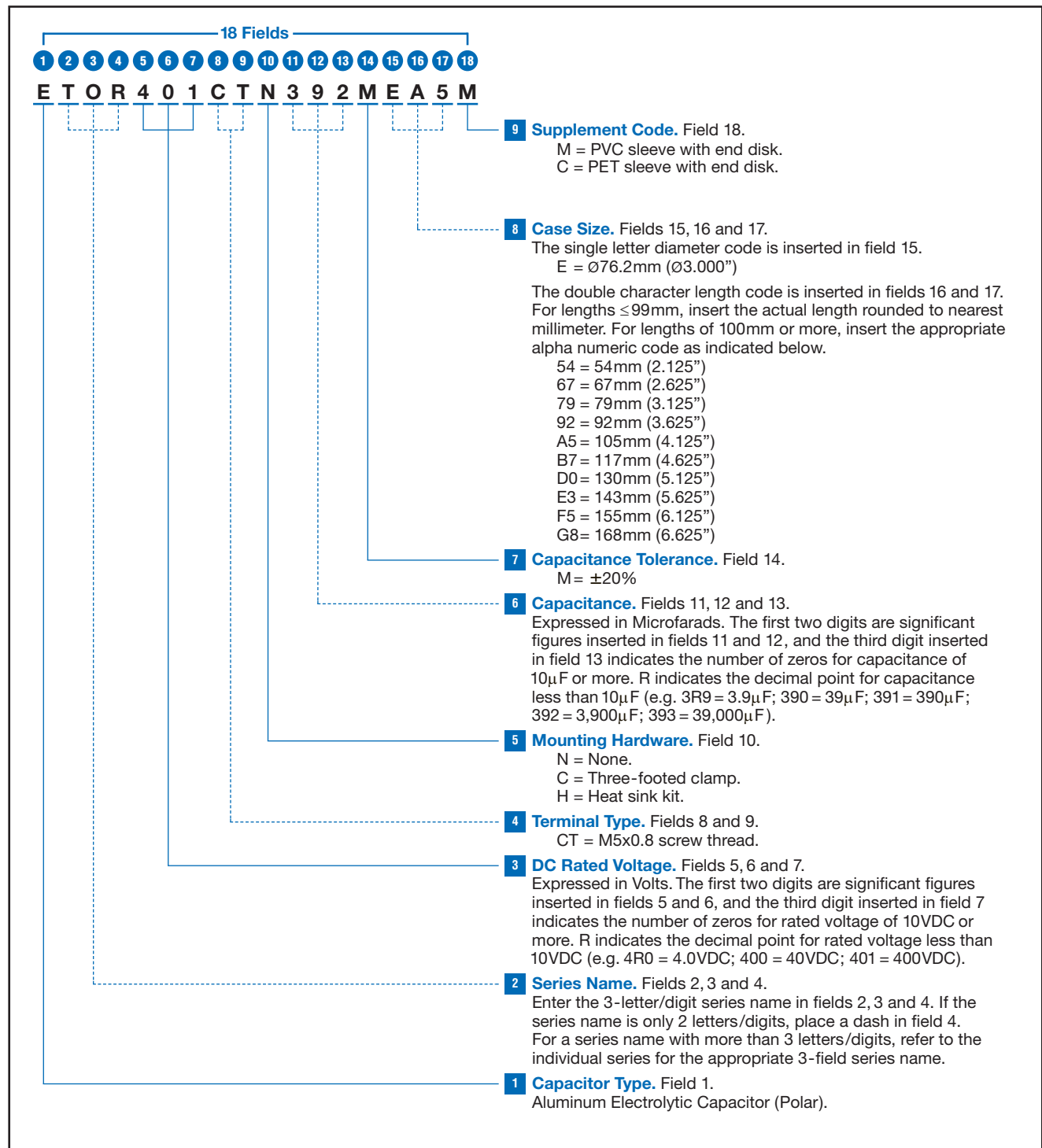
U37X Series

Part Numbering System for U37X Series When ordering, always specify complete 18-field global part number.



UTOR Series

Part Numbering System for UTOR Series When ordering, always specify complete 18-field global part number.



Appendix (Part number)

◆Capacitance code

* How to use the table

1st	2nd
Cap. Value	

Capacitance value part

2nd	1st								
	1	2	3	4	5	6	7	8	9
0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0
A	10.5	20.5	30.5	40.5	50.5	60.5	70.5	80.5	90.5
1	11.0	21.0	31.0	41.0	51.0	61.0	71.0	81.0	91.0
B	11.5	21.5	31.5	41.5	51.5	61.5	71.5	81.5	91.5
2	12.0	22.0	32.0	42.0	52.0	62.0	72.0	82.0	92.0
C	12.5	22.5	32.5	42.5	52.5	62.5	72.5	82.5	92.5
3	13.0	23.0	33.0	43.0	53.0	63.0	73.0	83.0	93.0
D	13.5	23.5	33.5	43.5	53.5	63.5	73.5	83.5	93.5
4	14.0	24.0	34.0	44.0	54.0	64.0	74.0	84.0	94.0
E	14.5	24.5	34.5	44.5	54.5	64.5	74.5	84.5	94.5
5	15.0	25.0	35.0	45.0	55.0	65.0	75.0	85.0	95.0
F	15.5	25.5	35.5	45.5	55.5	65.5	75.5	85.5	95.5
6	16.0	26.0	36.0	46.0	56.0	66.0	76.0	86.0	96.0
G	16.5	26.5	36.5	46.5	56.5	66.5	76.5	86.5	96.5
7	17.0	27.0	37.0	47.0	57.0	67.0	77.0	87.0	97.0
H	17.5	27.5	37.5	47.5	57.5	67.5	77.5	87.5	97.5
8	18.0	28.0	38.0	48.0	58.0	68.0	78.0	88.0	98.0
J	18.5	28.5	38.5	48.5	58.5	68.5	78.5	88.5	98.5
9	19.0	29.0	39.0	49.0	59.0	69.0	79.0	89.0	99.0
K	19.5	29.5	39.5	49.5	59.5	69.5	79.5	89.5	99.5



For less than 10μF, a decimal point position is displayed with R.

For 10μF or more, capacitance code is set to the first 2 digits and index (1 digit).

Treatment of fraction (Refer to the table)

Example of conversion

Real cap.	The first 2 digits	Treatment of fraction	Code		
			11th	12th	13th
10.0μF →	10.0 →	10.0 →	1	0	0
10.1μF →	10.1 →	10.0 →	1	0	0
10.2μF →	10.2 →	10.0 →	1	0	0
10.3μF →	10.3 →	10.5 →	1	A	0
10.4μF →	10.4 →	10.5 →	1	A	0
10.5μF →	10.5 →	10.5 →	1	A	0
10.6μF →	10.6 →	10.5 →	1	A	0
10.7μF →	10.7 →	10.5 →	1	A	0
10.8μF →	10.8 →	11.0 →	1	1	0
10.9μF →	10.9 →	11.0 →	1	1	0
11.0μF →	11.0 →	11.0 →	1	1	0
132μF →	13.2 →	13.0 →	1	3	1
133μF →	13.3 →	13.5 →	1	D	1
167μF →	16.7 →	16.5 →	1	G	1
168μF →	16.8 →	17.0 →	1	7	1
1110μF →	11.1 →	11.0 →	1	1	2
1340μF →	13.4 →	13.5 →	1	D	2
13200μF →	13.2 →	13.0 →	1	3	3
13600μF →	13.6 →	13.5 →	1	D	3
270000μF →	27.0 →	27.0 →	2	7	4

◆Case length (Radial lead type)

Case length [mm]	16th	17th
0.0	—	—
0.1	0	B
0.2	0	C
0.3	0	D
0.4	0	E
0.5	0	F
0.6	0	G
0.7	0	H
0.8	0	J
0.9	0	K

Case length [mm]	16th	17th
1.0	0	1
1.1	1	B
1.2	1	C
1.3	1	D
1.4	1	E
1.5	1	F
1.6	1	G
1.7	1	H
1.8	1	J
1.9	1	K

Case length [mm]	16th	17th
2.0	0	2
2.1	2	B
2.2	2	C
2.3	2	D
2.4	2	E
2.5	2	F
2.6	2	G
2.7	2	H
2.8	2	J
2.9	2	K

Case length [mm]	16th	17th
3.0	0	3
3.1	3	B
3.2	3	C
3.3	3	D
3.4	3	E
3.5	3	F
3.6	3	G
3.7	3	H
3.8	3	J
3.9	3	K

Case length [mm]	16th	17th
4.0	0	4
4.1	4	B
4.2	4	C
4.3	4	D
4.4	4	E
4.5	4	F
4.6	4	G
4.7	4	H
4.8	4	J
4.9	4	K

Case length [mm]	16th	17th
5.0	0	5
5.1	5	B
5.2	5	C
5.3	5	D
5.4	5	E
5.5	5	F
5.6	5	G
5.7	5	H
5.8	5	J
5.9	5	K

Case length [mm]	16th	17th
6.0	0	6
6.1	6	B
6.2	6	C
6.3	6	D
6.4	6	E
6.5	6	F
6.6	6	G
6.7	6	H
6.8	6	J
6.9	6	K

Case length [mm]	16th	17th
7.0	0	7
7.1	7	B
7.2	7	C
7.3	7	D
7.4	7	E
7.5	7	F
7.6	7	G
7.7	7	H
7.8	7	J
7.9	7	K

Case length [mm]	16th	17th
8.0	0	8
8.1	8	B
8.2	8	C
8.3	8	D
8.4	8	E
8.5	8	F
8.6	8	G
8.7	8	H
8.8	8	J
8.9	8	K

Case length [mm]	16th	17th
9.0	0	9
9.1	9	B
9.2	9	C
9.3	9	D
9.4	9	E
9.5	9	F
9.6	9	G
9.7	9	H
9.8	9	J
9.9	9	K

Case length [mm]	16th	17th
10.0	1	0
10.1	A	1
10.2	A	2
10.3	A	3
10.4	A	4
10.5	A	5
10.6	A	6
10.7	A	7
10.8	A	8
10.9	A	9

Case length [mm]	16th	17th
11.0	1	1
11.1	B	1
11.2	B	2
11.3	B	3
11.4	B	4
11.5	B	5
11.6	B	6
11.7	B	7
11.8	B	8
11.9	B	9

Case length [mm]	16th	17th
12.0	1	2
12.1	C	1
12.2	C	2
12.3	C	3
12.4	C	4
12.5	C	5
12.6	C	6
12.7	C	7
12.8	C	8
12.9	C	9

Case length [mm]	16th	17th
13.0	1	3
13.1	D	1
13.2	D	2
13.3	D	3
13.4	D	4
13.5	D	5
13.6	D	6
13.7	D	7
13.8	D	8
13.9	D	9

Case length [mm]	16th	17th
14.0	1	4
14.1	E	1
14.2	E	2
14.3	E	3
14.4	E	4
14.5	E	5
14.6	E	6
14.7	E	7
14.8	E	8
14.9	E	9



PART NUMBERING SYSTEM

Case length [mm]	16th	17th	Case length [mm]	16th	17th	Case length [mm]	16th	17th	Case length [mm]	16th	17th	Case length [mm]	16th	17th
15.0	1	5	16.0	1	6	17.0	1	7	18.0	1	8	19.0	1	9
15.1	F	1	16.1	G	1	17.1	H	1	18.1	J	1	19.1	K	1
15.2	F	2	16.2	G	2	17.2	H	2	18.2	J	2	19.2	K	2
15.3	F	3	16.3	G	3	17.3	H	3	18.3	J	3	19.3	K	3
15.4	F	4	16.4	G	4	17.4	H	4	18.4	J	4	19.4	K	4
15.5	F	5	16.5	G	5	17.5	H	5	18.5	J	5	19.5	K	5
15.6	F	6	16.6	G	6	17.6	H	6	18.6	J	6	19.6	K	6
15.7	F	7	16.7	G	7	17.7	H	7	18.7	J	7	19.7	K	7
15.8	F	8	16.8	G	8	17.8	H	8	18.8	J	8	19.8	K	8
15.9	F	9	16.9	G	9	17.9	H	9	18.9	J	9	19.9	K	9

Case length [mm]	16th	17th	Case length [mm]	16th	17th	Case length [mm]	16th	17th	Case length [mm]	16th	17th	Case length [mm]	16th	17th
20.0	2	0	30.0	3	0	40.0	4	0	50.0	5	0	60.0	6	0
20.5	L	1	30.5	N	1	40.5	Q	1	50.5	S	1	60.5	U	1
21.0	2	1	31.0	3	1	41.0	4	1	51.0	5	1	61.0	6	1
21.5	L	3	31.5	N	3	41.5	Q	3	51.5	S	3	61.5	U	3
22.0	2	2	32.0	3	2	42.0	4	2	52.0	5	2	62.0	6	2
22.5	L	5	32.5	N	5	42.5	Q	5	52.5	S	5	62.5	U	5
23.0	2	3	33.0	3	3	43.0	4	3	53.0	5	3	63.0	6	3
23.5	L	7	33.5	N	7	43.5	Q	7	53.5	S	7	63.5	U	7
24.0	2	4	34.0	3	4	44.0	4	4	54.0	5	4	64.0	6	4
24.5	L	9	34.5	N	9	44.5	Q	9	54.5	S	9	64.5	U	9
25.0	2	5	35.0	3	5	45.0	4	5	55.0	5	5	65.0	6	5
25.5	M	1	35.5	P	1	45.5	R	1	55.5	T	1	65.5	V	1
26.0	2	6	36.0	3	6	46.0	4	6	56.0	5	6	66.0	6	6
26.5	M	3	36.5	P	3	46.5	R	3	56.5	T	3	66.5	V	3
27.0	2	7	37.0	3	7	47.0	4	7	57.0	5	7	67.0	6	7
27.5	M	5	37.5	P	5	47.5	R	5	57.5	T	5	67.5	V	5
28.0	2	8	38.0	3	8	48.0	4	8	58.0	5	8	68.0	6	8
28.5	M	7	38.5	P	7	48.5	R	7	58.5	T	7	68.5	V	7
29.0	2	9	39.0	3	9	49.0	4	9	59.0	5	9	69.0	6	9
29.5	M	9	39.5	P	9	49.5	R	9	59.5	T	9	69.5	V	9

Case length [mm]	16th	17th	Case length [mm]	16th	17th
70.0	7	0	80.0	8	0
70.5	W	1	80.5	Y	1
71.0	7	1	81.0	8	1
71.5	W	3	81.5	Y	3
72.0	7	2	82.0	8	2
72.5	W	5	82.5	Y	5
73.0	7	3	83.0	8	3
73.5	W	7	83.5	Y	7
74.0	7	4	84.0	8	4
74.5	W	9	84.5	Y	9
75.0	7	5	85.0	8	5
75.5	X	1	85.5	Z	1
76.0	7	6	86.0	8	6
76.5	X	3	86.5	Z	3
77.0	7	7	87.0	8	7
77.5	X	5	87.5	Z	5
78.0	7	8	88.0	8	8
78.5	X	7	88.5	Z	7
79.0	7	9	89.0	8	9
79.5	X	9	89.5	Z	9

◆Case length (Snap-in type / Screw mount terminal type)

Case length [mm]	16th	17th
20	2	0
21	2	1
22	2	2
23	2	3
24	2	4
25	2	5
26	2	6
27	2	7
28	2	8
29	2	9

Case length [mm]	16th	17th
30	3	0
31	3	1
32	3	2
33	3	3
34	3	4
35	3	5
36	3	6
37	3	7
38	3	8
39	3	9

Case length [mm]	16th	17th
40	4	0
41	4	1
42	4	2
43	4	3
44	4	4
45	4	5
46	4	6
47	4	7
48	4	8
49	4	9

Case length [mm]	16th	17th
50	5	0
51	5	1
52	5	2
53	5	3
54	5	4
55	5	5
56	5	6
57	5	7
58	5	8
59	5	9

Case length [mm]	16th	17th
60	6	0
61	6	1
62	6	2
63	6	3
64	6	4
65	6	5
66	6	6
67	6	7
68	6	8
69	6	9

Case length [mm]	16th	17th
70	7	0
71	7	1
72	7	2
73	7	3
74	7	4
75	7	5
76	7	6
77	7	7
78	7	8
79	7	9

Case length [mm]	16th	17th
80	8	0
81	8	1
82	8	2
83	8	3
84	8	4
85	8	5
86	8	6
87	8	7
88	8	8
89	8	9

Case length [mm]	16th	17th
90	9	0
91	9	1
92	9	2
93	9	3
94	9	4
95	9	5
96	9	6
97	9	7
98	9	8
99	9	9

Case length [mm]	16th	17th
100	A	0
101	A	1
102	A	2
103	A	3
104	A	4
105	A	5
106	A	6
107	A	7
108	A	8
109	A	9

Case length [mm]	16th	17th
110	B	0
111	B	1
112	B	2
113	B	3
114	B	4
115	B	5
116	B	6
117	B	7
118	B	8
119	B	9

Case length [mm]	16th	17th
120	C	0
121	C	1
122	C	2
123	C	3
124	C	4
125	C	5
126	C	6
127	C	7
128	C	8
129	C	9

Case length [mm]	16th	17th
130	D	0
131	D	1
132	D	2
133	D	3
134	D	4
135	D	5
136	D	6
137	D	7
138	D	8
139	D	9

Case length [mm]	16th	17th
140	E	0
141	E	1
142	E	2
143	E	3
144	E	4
145	E	5
146	E	6
147	E	7
148	E	8
149	E	9

Case length [mm]	16th	17th
150	F	0
151	F	1
152	F	2
153	F	3
154	F	4
155	F	5
156	F	6
157	F	7
158	F	8
159	F	9

Case length [mm]	16th	17th
160	G	0
161	G	1
162	G	2
163	G	3
164	G	4
165	G	5
166	G	6
167	G	7
168	G	8
169	G	9

Case length [mm]	16th	17th
170	H	0
171	H	1
172	H	2
173	H	3
174	H	4
175	H	5
176	H	6
177	H	7
178	H	8
179	H	9

Case length [mm]	16th	17th
180	J	0
181	J	1
182	J	2
183	J	3
184	J	4
185	J	5
186	J	6
187	J	7
188	J	8
189	J	9

Case length [mm]	16th	17th
190	K	0
191	K	1
192	K	2
193	K	3
194	K	4
195	K	5
196	K	6
197	K	7
198	K	8
199	K	9

Case length [mm]	16th	17th
200	L	0
201	L	1
202	L	2
203	L	3
204	L	4
205	L	5
206	L	6
207	L	7
208	L	8
209	L	9

Case length [mm]	16th	17th
210	M	0
211	M	1
212	M	2
213	M	3
214	M	4
215	M	5
216	M	6
217	M	7
218	M	8
219	M	9

Case length [mm]	16th	17th
220	N	0
221	N	1
222	N	2
223	N	3
224	N	4
225	N	5
226	N	6
227	N	7
228	N	8
229	N	9

Case length [mm]	16th	17th
230	P	0
231	P	1
232	P	2
233	P	3
234	P	4
235	P	5
236	P	6
237	P	7
238	P	8
239	P	9

Case length [mm]	16th	17th
240	Q	0
241	Q	1
242	Q	2
243	Q	3
244	Q	4
245	Q	5
246	Q	6
247	Q	7
248	Q	8
249	Q	9

Case length [mm]	16th	17th
250	R	0
251	R	1
252	R	2
253	R	3
254	R	4
255	R	5
256	R	6
257	R	7
258	R	8
259	R	9



PART NUMBERING SYSTEM

◆ Supplement code

Conductive Polymer Aluminum Solid Capacitors (Chip and Radial lead type)

Conductive Polymer Hybrid Aluminum Electrolytic Capacitors (Chip and Radial lead type)

Aluminum Electrolytic Capacitors (Chip type)

	Terminal plating material	
	Sn	Sn-Bi
Coating case	S	G

Aluminum Electrolytic Capacitors (Radial lead and Snap-in type)

		Terminal plating material	
		Sn	Sn-Bi
Outer sleeve	PET	S	D
	Coating case	H	G
	Polyolefin	L	—
	PVC	M	—

* Standard design of "environmental friendly" snap-in are not equipped with a plastic disk on the top of the can case.
We also produce snap-in type with "Plastic disk, PVC sleeve and Sn terminal plating".

Aluminum Electrolytic Capacitors (Screw mount terminal type)

Outer sleeve	Supplement code
PVC	U
Polyolefin	S
PET	C

* For the screw-mount type, the standard design has a plastic disk on the bottom side.

TAPING SPECIFICATIONS (Applicable standard JIS C 0806-3)

SURFACE MOUNT TYPE (TAPING)



◆CARRIER TAPE [mm]

Fig.1

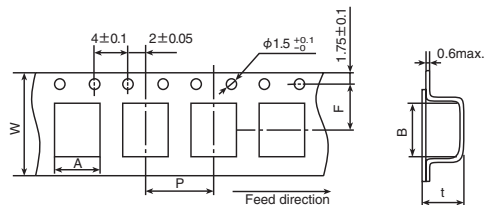


Fig.4

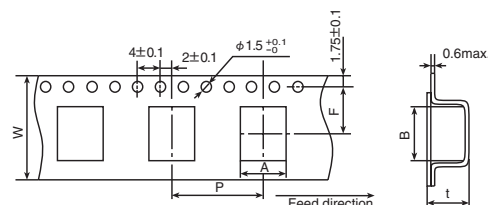


Fig.2

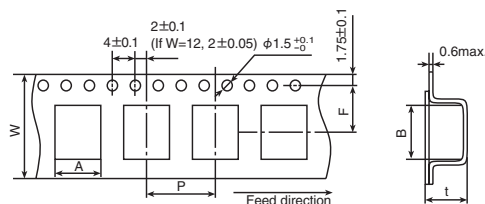


Fig.5

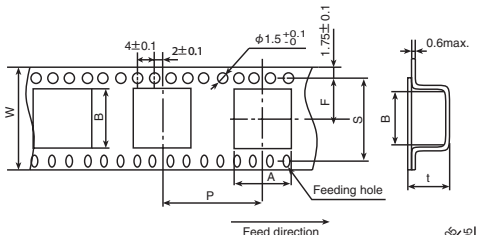
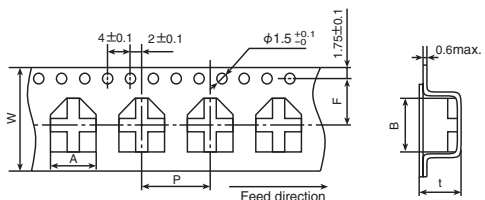


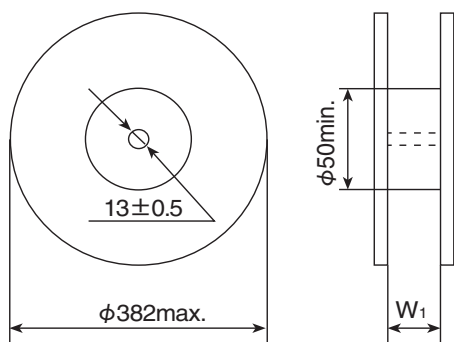
Fig.3



[mm]

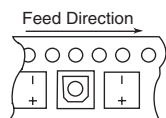
Series	Items	W	A	B	F	P	t	S	Fig.
		±0.3	±0.2	±0.2	±0.1	±0.1	±0.2	±0.1	
Alchip™	D55	12.0	4.7	4.7	5.5	8.0	5.7	—	1
	D60,D61	12.0	4.7	4.7	5.5	8.0	6.3	—	1
	D73	12.0	4.6	4.6	5.5	8.0	7.5	—	1
	E40	12.0	5.7	5.7	5.5	12.0	4.4	—	2
	E46	12.0	5.7	5.7	5.5	12.0	4.9	—	2
	E55	12.0	5.7	5.7	5.5	12.0	5.7	—	2
	E60,E61	12.0	5.7	5.7	5.5	12.0	6.3	—	2
	E73	16.0	5.7	5.7	7.5	12.0	7.5	—	2
	F30	16.0	7.5	8.0	7.5	12.0	3.7	—	3
	F46	16.0	7.0	7.0	7.5	12.0	4.9	—	2
	F55	16.0	7.0	7.0	7.5	12.0	5.7	—	2
	F60,F61	16.0	7.0	7.0	7.5	12.0	6.3	—	2
	F73	16.0	7.0	7.0	7.5	12.0	7.5	—	2
	F80	16.0	7.0	7.0	7.5	12.0	8.2	—	2
	F90	16.0	7.0	7.0	7.5	12.0	9.2	—	2
	FA0	16.0	7.0	7.0	7.5	12.0	10.3	—	2
	H63	16.0	8.7	8.7	7.5	12.0	6.8	—	2
	H70	24.0	8.7	8.7	11.5	12.0	7.3	—	2
	H80	24.0	8.7	8.7	11.5	12.0	8.3	—	2
	HA0	24.0	8.7	8.7	11.5	16.0	11.0	—	4
NPCAP™	HC0	24.0	8.7	8.7	11.5	16.0	12.7	—	4
	J80	24.0	10.7	10.7	11.5	16.0	8.3	—	4
	JA0	24.0	10.7	10.7	11.5	16.0	11.0	—	4
	JC0	24.0	10.7	10.7	11.5	16.0	12.8	—	4
	JC5	24.0	10.7	10.7	11.5	16.0	12.8	—	4
	JH0	32.0	10.7	10.7	14.2	24.0	17.1	28.4	5
	KE0	32.0	13.4	13.4	14.2	24.0	14.0	28.4	5
	KG5	32.0	13.4	13.4	14.2	24.0	16.5	28.4	5
	KN0	32.0	13.4	13.4	14.2	24.0	22.1	28.4	5
	LH0	44.0	17.5	17.5	20.2	28.0	16.8	40.4	5
Hybrid	LN0	44.0	17.5	17.5	20.2	28.0	22.1	40.4	5
	MH0	44.0	19.5	19.5	20.2	32.0	17.1	40.4	5
	MN0	44.0	19.5	19.5	20.2	32.0	22.1	40.4	5
	HXF								
	HXE/HXJ								
	HXC/HXD								

◆ REEL DIMENSIONS [mm]



◆ POLARITY

Alchip™ -MVE/MZT/MZS
 MZL/MZR/MZJ
 MZA/MVY/MZF
 MZE/MZK/MLA
 MLF/MLE/MLK
 MVL/MVJ/MXB
 MHS/MVH/MHL
 MHB/MHJ/MHK
 NP CAP™ -PMF
 PXN/PXT/PXJ/PXG
 PXK/PXS/PXF/PXE
 PXA/PXD/PXH
 Hybrid -HXF/HXE/HXJ/HXC
 HXD



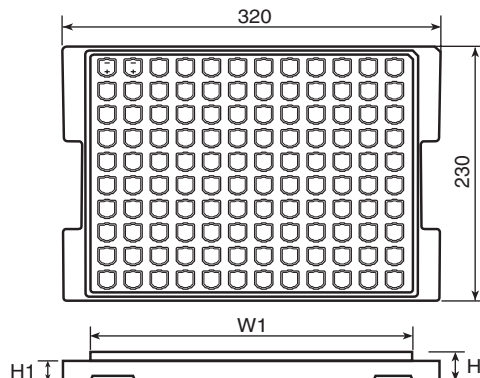
◆ QUANTITY PER REEL/BOX

Series	Size code	Quantity (pcs/reel)	Quantity (pcs/box)	W ₁ (mm)
Alchip™	D55,D60,D61	2,000	10,000	14
	D73	1,500	7,500	14
	E55,E60,E61	1,000	5,000	14
	E73	1,000	5,000	18
	F55,F60,F61,F73	1,000	5,000	18
	F80	900	4,500	18
	F90	800	4,000	18
	H63	1,000	5,000	18
	HA0	500	1,500	26
	JA0	500	1,500	26
	JC5	400	1,200	26
	JH0	200	600	34
	KE0	250 ^{*1}	750 ^{*1}	34
	KG5	200 ^{*1}	600 ^{*1}	34
	KN0	150	450	34
	LH0	175 ^{*1}	350 ^{*1}	46
Hybrid	HXE/HXJ	125 ^{*1}	250 ^{*1}	46
	HXC/HXD	150 ^{*1}	300 ^{*1}	46
	MN0	100 ^{*1}	200 ^{*1}	46
	MN0	100 ^{*1}	200 ^{*1}	46
NPCAP™	E40,E46,E61	1,000	10,000	14
	F30	2,000	10,000	18
	F46,F61	1,000	7,000	18
	F80	900	6,300	18
	FA0	750	5,250	18
	H70	1,000	6,000	26
	H80	900	5,400	26
	HA0	500	3,000	26
	HC0	400	1,200	26
	J80	500	3,000	26
	JA0	500	3,000	26
	JC0	400	1,200	26

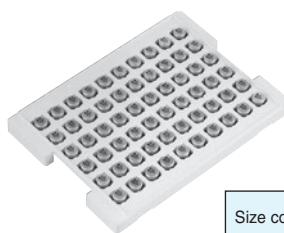
*1 : Changed the packing quantity. (Size Code : KE0 to MN0)

SURFACE MOUNT TYPE (TRAY)

◆ DIMENSIONS [mm]



● TRAY CODE : TR

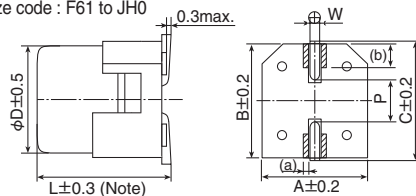


Size code	H [mm]	W ₁ [mm]	H ₁ [mm]	Quantity [pcs/tray]	Quantity [pcs/box]
KE0 & KG5	21.0	284	18.5	120	600
LH0 & LN0	28.0	284	24.0	80	400
MH0 & MN0	28.0	284	24.0	60	300

VIBRATION RESISTANT STRUCTURE (Terminal code : G)

◆ DIMENSIONS [mm]

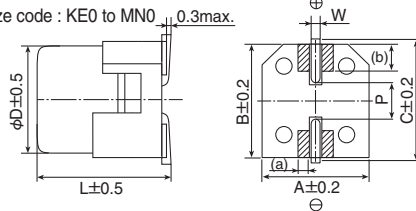
- Terminal code : G
- Size code : F61 to JH0



Note : L±0.5 for HA0 to JH0

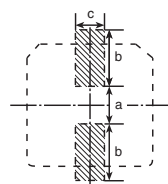
⊗ : Dummy terminals

- Size code : KE0 to MN0



⊗ : Dummy terminals

◆ RECOMMENDED SOLDER LAND



⊗ Solder land on PC board

The vibration resistant model supports the vibration condition of 30G.
 Since vibration is affected by solder thickness and other characteristics and conditions, please contact us for details.

Size code	Dimensions of products (mm)									Solder land (mm)		
	D	L	A	B	C	W	P	(a)	(b)	a	b	c
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9	(0.7)	(1.4)	1.9	3.5	3.3
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9	(0.7)	(1.4)	1.9	3.5	3.3
HA0	8.0	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1	(0.5)	(1.8)	3.1	4.2	3.5
JA0	10.0	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5	(0.5)	(2.1)	4.5	4.4	3.5
JC5	10.0	12.5	10.3	10.3	11.0	0.7 to 1.1	4.5	(0.5)	(2.1)	4.5	4.4	3.5
JH0	10.0	16.5	10.3	10.3	11.0	1.0 to 1.3	4.2	(0.5)	(2.1)	4.0	4.7	3.8
KE0	12.5	13.5	13.0	13.0	13.7	1.0 to 1.3	4.2	(1.3)	(3.0)	3.4	6.3	9.3
KG5	12.5	16.0	13.0	13.0	13.7	1.0 to 1.3	4.2	(1.3)	(3.0)	3.4	6.3	9.3
KN0	12.5	21.5	13.0	13.0	13.7	1.0 to 1.3	4.2	(1.3)	(3.0)	3.4	6.3	9.3
LH0	16.0	16.5	17.0	17.0	18.0	1.0 to 1.3	6.5	(2.0)	(3.0)	4.7	7.8	9.6
LN0	16.0	21.5	17.0	17.0	18.0	1.0 to 1.3	6.5	(2.0)	(3.0)	4.7	7.8	9.6
MH0	18.0	16.5	19.0	19.0	20.0	1.0 to 1.3	6.5	(2.0)	(4.0)	4.7	8.8	9.6
MN0	18.0	21.5	19.0	19.0	20.0	1.0 to 1.3	6.5	(2.0)	(4.0)	4.7	8.8	9.6

() : Ref.

RADIAL LEAD TYPE TAPING SPECIFICATIONS (Applicable standard JIS C 0806-2)

Conductive Polymer Aluminum Solid Capacitors Conductive Polymer Hybrid Aluminum Electrolytic Capacitors

◆DIMENSION [mm]

Fig.1

Taping Code : TX
φD=φ5

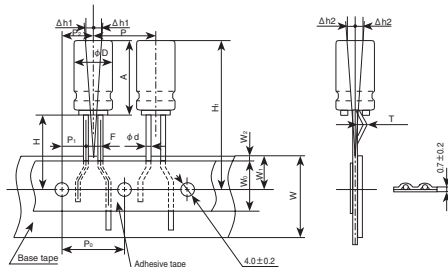
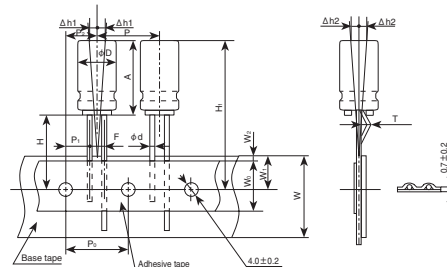


Fig.2

Taping Code : TD
φD=φ6.3 to 10



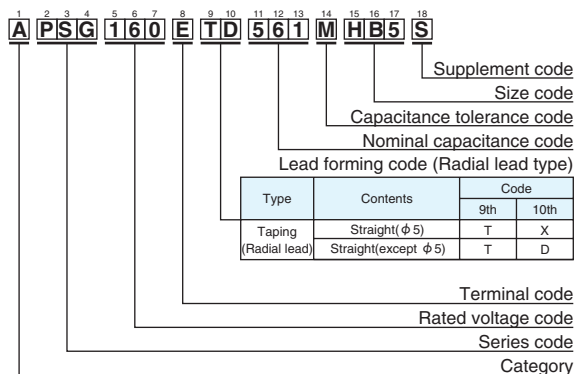
Code	Taping Code	Case size		φd	P	P ₀	P ₁	P ₂	F	W	W ₀	W ₁	W ₂	H	H ₁	φD ₀	Δh ₁	Δh ₂	t	T	Fig
tol.	---	---	---	±0.05	±1.0	±0.2	±0.7	±1.0	$\pm \frac{0.8}{0.2}$	±0.5	min.	±0.5	max.	±0.75	max.	±0.2	±2.0	±2.0	±0.3	±1.0	
Nominal	TX	5	8	0.5	12.7	12.7	5.35	6.35	2.0 ^{*2}	18	10	9.0	2.5	18.5	28.25	4.0	0	0	0.7	0	1
		6.3	5	0.45	12.7	12.7	5.1	6.35	2.5	18	10	9.0	2.5	18.5	28.25	4.0	0	0	0.7	0	2
		6.3	8	0.6	12.7	12.7	5.1	6.35	2.5	18	10	9.0	2.5	18.5	28.75 ^{*1}	4.0	0	0	0.7	0	2
		8	8	0.6	12.7	12.7	4.6	6.35	3.5	18	10	9.0	2.5	20.0	29.75	4.0	0	0	0.7	0	2
		8	11.5	0.6 ^{*1}	12.7	12.7	4.6	6.35	3.5	18	10	9.0	2.5	20.0	33.75	4.0	0	0	0.7	0	2
		8	16	0.6	12.7	12.7	4.6	6.35	3.5	18	10	9.0	2.5	20.0	38.25	4.0	0	0	0.7	0	2
		10	10.5	0.6	12.7	12.7	3.85	6.35	5.0	18	10	9.0	2.5	18.5	30.75	4.0	0	0	0.7	0	2
		10	11.5	0.6 ^{*1}	12.7	12.7	3.85	6.35	5.0	18	10	9.0	2.5	18.5	32.25	4.0	0	0	0.7	0	2
		10	12.5	0.6	12.7	12.7	3.85	6.35	5.0	18	10	9.0	2.5	18.5	33.25	4.0	0	0	0.7	0	2
		10	16	0.6	12.7	12.7	3.85	6.35	5.0	18	10	9.0	2.5	18.5	36.75	4.0	0	0	0.7	0	2
		10	20	0.6	12.7	12.7	3.85	6.35	5.0	18	10	9.0	2.5	18.5	40.75	4.0	0	0	0.7	0	2

* 1 : Each product family has different value. Please refer to each page.

* 2 : For case size φ5×8 (Taping code : TX), H dimension shall be 2.0^{+0.5/-0.2}.

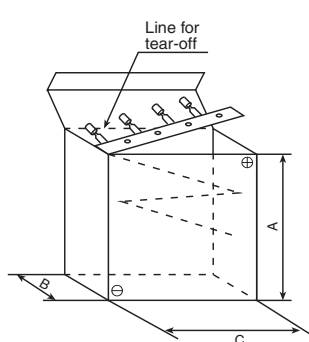
TAPING CODE

Example



QUANTITY PER AMMO PACK

Ammo pack box



Typical example

Case size φD×L(mm)	A (mm)	B (mm)	C (mm)	Quantity (pcs.)
φ5 L=8mm	240	51	336	2,000
φ6.3 L=5 & 8mm	285	51	336	2,000
φ8 L=8 to 11.5mm	240	51	336	1,000
L=16mm	240	56	336	
L=20mm	240	62	336	
φ10 L=10.5 to 12.5mm	190	51	337	500
L=16mm	308	56	337	800
L=20mm	308	62	337	

RADIAL LEAD TYPE TAPING SPECIFICATIONS (Applicable standard JIS C 0806-2)

Aluminum Electrolytic Capacitors

◆DIMENSION [mm]

Fig.1

Taping Code : TC
 $\phi D = \phi 5$ to 8

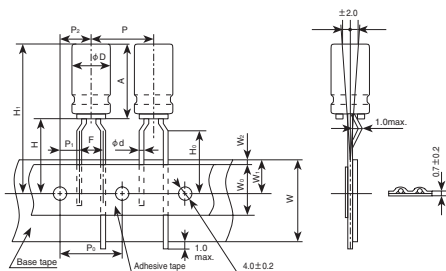


Fig.2

Taping Code : TD
 $\phi D = \phi 5$

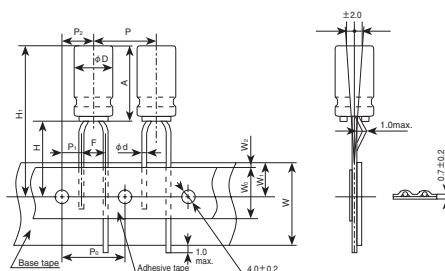


Fig.3

Taping Code : TD
 $\phi D = \phi 6.3$ to 12.5

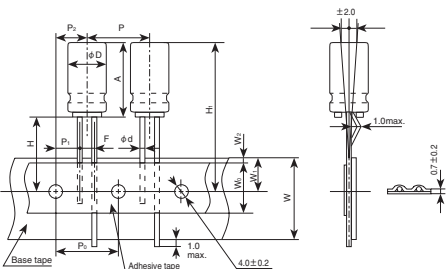
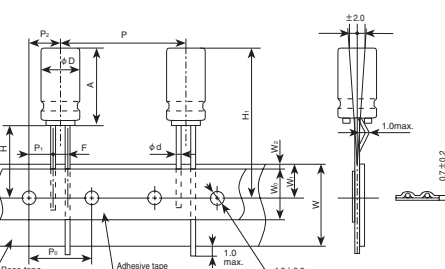


Fig.4

Taping Code : TE
 $\phi D = \phi 12.5$



Code	Taping Code	Case size		ϕd	P	P_0	P_1	P_2	F	W	W_0	W_1	W_2	H	H_0	H_1	Fig
		ϕD	A														
tol.				± 0.05	± 1.0	± 0.2	± 0.7	± 1.0	± 0.8	± 0.5	min.	± 0.5	max.	± 0.75	± 0.5		
Nominal	TD	5	11 to 15	0.5^{*1}	12.7	12.7	5.1	6.35	2.5	18.0	10.0	9.0	1.5	18.5	16.0		2
	TC	5	11 to 15	0.5^{*1}	12.7	12.7	3.85	6.35	2.5	18.0	10.0	9.0	1.5	18.5	16.0		1
	TD	6.3	11 to 15	0.5	12.7	12.7	5.1	6.35	2.5	18.0	10.0	9.0	1.5	18.5	16.0		3
	TC	6.3	11 to 15	0.5	12.7	12.7	3.85	6.35	2.5	18.0	10.0	9.0	1.5	18.5	16.0		1
Nominal	TD	8	11.5 to 20	0.6	12.7	12.7	4.6	6.35	3.5	18.0	10.0	9.0	1.5	20.0	16.0		3
	TC	8	11.5 to 20	0.6	12.7	12.7	3.85	6.35	5	18.0	10.0	9.0	1.5	20.0	16.0		1
tol.		± 0.5	max.	± 0.05	± 1.0	± 0.3	± 0.7	± 1.3	± 0.8	± 0.5	min.	± 0.5	max.	± 0.75	± 0.5		
Nominal	TD	10	21	0.6^{*1}	12.7	12.7	3.85	6.35	5	18.0	12.5	9.0	1.5	18.0			3
	TD	10	21	0.6^{*1}	15	15	5.0	7.5	5	18.0	12.5	9.0	1.5	18.0			3
	TE	12.5	26	0.6^{*1}	25.4	12.7	3.85	6.35	5	18.0	12.5	9.0	1.5	18.0			4
	TE	12.5	26	0.6^{*1}	25.4	12.7	3.85	6.35	5	18.0	12.5	9.0	1.5	18.0			4

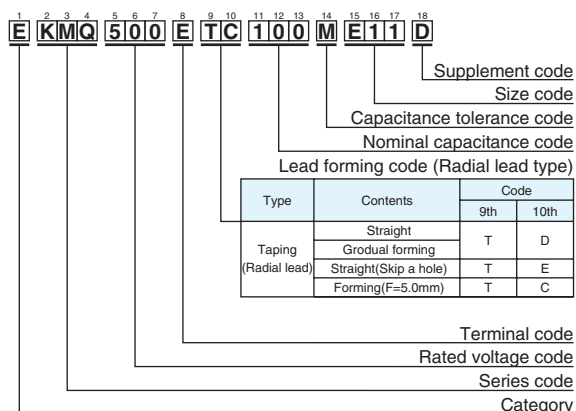
* 1 : Each product family has different value. Please refer to each page.

* 2 : The taping for size $\phi 16$ and $\phi 18$ is available as a custom design.

* 3 : For the Taping code TD products with case diameter ≥ 12.5 mm, you can also select an option (Taping code: TS) that enhanced taping packaging.

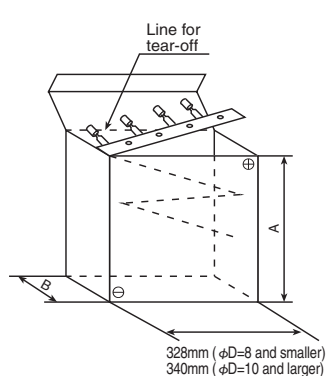
TAPING CODE

Example



QUANTITY PER AMMO PACK

Ammo pack box

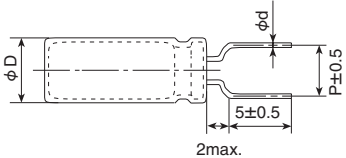
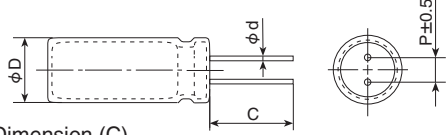
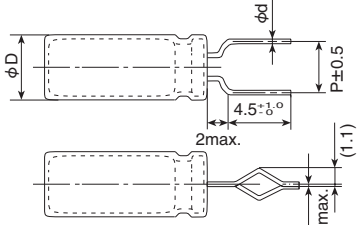
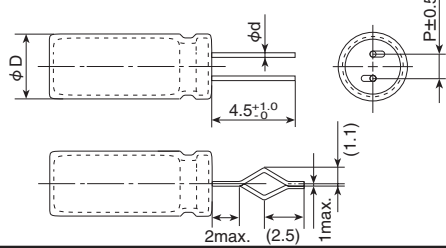
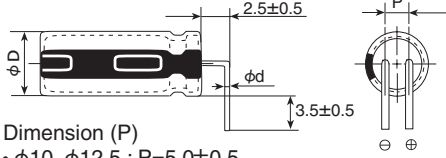
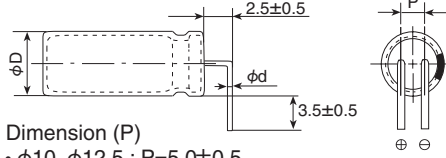
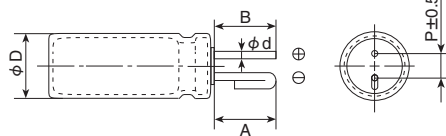


Typical example

Case size $\phi D \times L$ (mm)	A (mm)	B (mm)	Quantity (pcs.)
$\phi 5$ L=11 to 15mm L=17mm	232 235	51 60	2,000
$\phi 6.3$ L=11 to 15mm L=17mm	284 284	51 55	2,000
$\phi 8$ L=11.5 to 15mm L=17 & 20mm	232 235	51 60	1,000
$\phi 10$ L $\leq$ 16mm L=17 to 20mm L=21 to 25mm L=26 to 30mm	308 308 308 308	56 62 67 71	800 500
$\phi 12.5$ L $\leq$ 16mm L=17 to 25mm	308 308	62 67	500

RADIAL LEAD TYPE (CUT/FORMED LEAD)

The following lead configurations are available. When ordering, please indicate the type of lead configurations by using the appropriate supplement code, such as C3, FC, MC or RC in the product part number.

Terminal type	Size	Terminal type	Size												
●Lead code : FC (Forming Cut type) 	φD=5 to 8	●Lead code : C3 (Cutting type)  Dimension (C) • φD= 5 to 8: C3: 3.5±0.5(Second standard C5: 5.0±0.5) • φD=10 to 18: C3: 3.5±0.5(Second standard C5: 5.0±1.0)	φD=5 to 18												
●Lead code : FM (Snap-in type) 	φD=5 to 8	●Lead code : MC (Snap-in type) 	φD=10 to 18												
●Lead code : BC (Horizontal type)*³  Dimension (P) • φ10, φ12.5 : P=5.0±0.5 • φ14.5, φ16, φ18 : P=7.5±0.5	φD=10 to 18	●Lead code : BD (Horizontal type)*³  Dimension (P) • φ10, φ12.5 : P=5.0±0.5 • φ14.5, φ16, φ18 : P=7.5±0.5	φD=10 to 18												
●Lead code : IJ (Forming Cut type)  Dimension <table border="1"> <thead> <tr> <th>φD</th><th>A · B</th><th>φd</th><th>P</th></tr> </thead> <tbody> <tr> <td>10 to 12.5</td><td>3.2±0.5</td><td>0.6</td><td>5.0±0.5</td></tr> <tr> <td>14.5 to 18</td><td>3.2±0.5</td><td>0.8</td><td>7.5±0.5</td></tr> </tbody> </table>	φD	A · B	φd	P	10 to 12.5	3.2±0.5	0.6	5.0±0.5	14.5 to 18	3.2±0.5	0.8	7.5±0.5	φD=10 to 18	*1 Please consult with us about other terminal forming. *2 Please refer to dimensions of each series for gas escape end seal style. *3 Conventionally, lead forming code is used in common by (BC) for two type of the lead bent directions. We added lead forming code (BD) newly and clarified the lead bent directions. Please place an order after the choice for an appropriate lead forming code depending on condition of use.	
φD	A · B	φd	P												
10 to 12.5	3.2±0.5	0.6	5.0±0.5												
14.5 to 18	3.2±0.5	0.8	7.5±0.5												

◆DIMENSION (P) [mm]

Lead forming Size	Cutting type		Snap-in type	
	FC	C3(C5)	FM	MC
φ 5	5.0	2.0	5.0	—
φ 6.3	5.0	2.5	5.0	—
φ 8	5.0	3.5	5.0	—
φ 10	—	5.0	—	5.0
φ 12.5	—	5.0	—	5.0
φ 14.5	—	7.5	—	7.5
φ 16	—	7.5	—	7.5
φ 18	—	7.5	—	7.5

*4 Please refer to dimensions of each series for lead-wire diameter (φd).