



Features

- 4 ~ 18 ϕ , 105°C, 2,000 ~ 5,000 hours assured
- Large capacitance with ultra low impedance capacitors
- Designed for surface mounting on high density PC board
- RoHS Compliance



Marking color: Black

SPECIFICATIONS

Items	Performance																																
Category Temperature Range	-55 ~ +105°C																																
Capacitance Tolerance	±20% (at 120Hz, 20°C)																																
Leakage Current (at 20°C)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF V = rated DC working voltage in V																																
Dissipation Factor (Tan δ at 120Hz, 20°C)	<table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Tan δ (max)</td> <td>0.30</td> <td>0.26</td> <td>0.22</td> <td>0.16</td> <td>0.13</td> <td>0.10</td> <td>0.08</td> <td>0.08</td> <td>0.07</td> </tr> </tbody> </table> <p>When the capacitance exceeds 1,000 μF, 0.002 shall be added every 1,000 μF increase.</p>	Rated Voltage	6.3	10	16	25	35	50	63	80	100	Tan δ (max)	0.30	0.26	0.22	0.16	0.13	0.10	0.08	0.08	0.07												
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Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio shall not exceed the values given in the table below.</p> <table border="1"> <thead> <tr> <th colspan="2">Rated Voltage</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Impedance Ratio</td> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-55°C)/Z(+20°C)</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	Rated Voltage		6.3	10	16	25	35	50	63	80	100	Impedance Ratio	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2	2	Z(-55°C)/Z(+20°C)	8	5	4	3	3	3	3	3	3
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Endurance	<table border="1"> <tbody> <tr> <td>Test Time</td> <td>2,000 Hrs for $\phi D \leq 6.3\text{mm}$ & $10\phi \times 7.7\text{L}$; 5,000 Hrs for $\phi D \geq 8\text{mm}$</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±30% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 300% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </tbody> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000 ~ 5,000 hours at 105°C.</p>	Test Time	2,000 Hrs for $\phi D \leq 6.3\text{mm}$ & $10\phi \times 7.7\text{L}$; 5,000 Hrs for $\phi D \geq 8\text{mm}$	Capacitance Change	Within ±30% of initial value	Dissipation Factor	Less than 300% of specified value	Leakage Current	Within specified value																								
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Ripple Current & Frequency Multipliers	<table border="1"> <tbody> <tr> <td>Frequency(Hz)</td> <td>50, 60</td> <td>120</td> <td>1k</td> <td>10k up</td> </tr> <tr> <td>Multiplier</td> <td>0.60</td> <td>0.70</td> <td>0.85</td> <td>1.0</td> </tr> </tbody> </table>	Frequency(Hz)	50, 60	120	1k	10k up	Multiplier	0.60	0.70	0.85	1.0																						
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DIAGRAM OF DIMENSIONS

Fig. 1

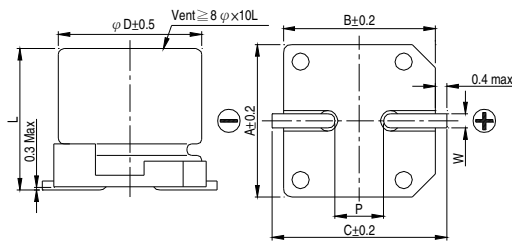
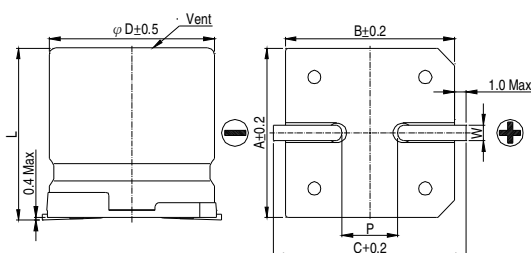


Fig. 2



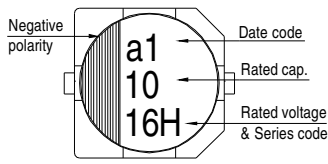
LEAD SPACING AND DIAMETER

Unit: mm

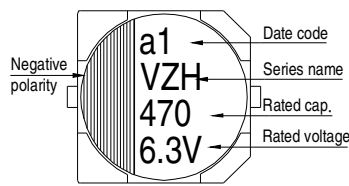
ϕD	L	A	B	C	W	P ± 0.2	Fig. No.
4	5.7 ± 0.3	4.3	4.3	5.1	0.5 ~ 0.8	1.0	1
5	5.7 ± 0.3	5.3	5.3	6.1	0.5 ~ 0.8	1.5	1
6.3	5.7 ± 0.3	6.6	6.6	7.4	0.5 ~ 0.8	2.0	1
6.3	7.7 ± 0.3	6.6	6.6	7.4	0.5 ~ 0.8	2.0	1
8	10 ± 0.5	8.4	8.4	9.2	0.7 ~ 1.1	3.1	1
8	10.3 ± 0.5	8.4	8.4	9.2	0.7 ~ 1.1	3.1	1
10	7.7 ± 0.3	10.4	10.4	11.2	0.7 ~ 1.1	4.7	1
10	10 ± 0.5	10.4	10.4	11.2	0.7 ~ 1.1	4.7	1
10	10.3 ± 0.5	10.4	10.4	11.2	0.7 ~ 1.1	4.7	1
12.5	13.5 ± 0.5	13.0	13.0	15.0	1.1 ~ 1.4	4.4	2
12.5	16 ± 0.5	13.0	13.0	15.0	1.1 ~ 1.4	4.4	2
16	16.5 ± 0.5	17.0	17.0	19.0	1.1 ~ 1.4	6.4	2
18	16.5 ± 0.5	19.0	19.0	21.0	1.1 ~ 1.4	6.4	2

MARKING

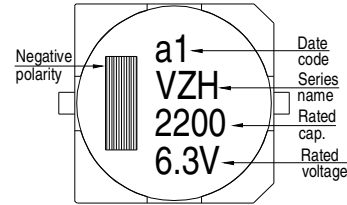
$\phi D \leq 6.3\text{mm}$



$\phi D = 8 \sim 10\text{mm}$



$\phi D \geq 12.5\text{mm}$



Dimension: $\phi D \times L(\text{mm})$

Ripple Current: mA/rms at 100k Hz, 105°C

Impedance: $\Omega/$ at 100k Hz, 20°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

μF	V. DC Contents	6.3V (0J)			10V (1A)			16V (1C)			25V (1E)			35V (1V)			50V (1H)		
		$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA
1	010																4x5.7	2.9	60
2.2	2R2																4x5.7	2.9	60
3.3	3R3																4x5.7	2.9	60
4.7	4R7												4x5.7	1.35	80	5x5.7	1.52	85	
10	100							4x5.7	1.35	80	4x5.7	1.35	80	5x5.7	0.80	150	6.3x5.7	0.88	165
22	220	4x5.7	1.35	80	4x5.7	1.35	80	5x5.7	0.80	150	5x5.7	0.80	150	6.3x5.7	0.44	230	6.3x5.7	0.88	165
33	330	4x5.7	1.35	80	5x5.7	0.80	150	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x7.7	0.68	185
47	470	5x5.7	0.80	150	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x7.7	0.68	185
68	680																8x10	0.34	369
100	101	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x7.7	0.36	280	8x10	0.17	450	8x10 10x10	0.34 0.18	369 553
150	151	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x7.7	0.36	280	8x10	0.17	450	8x10 10x7.7	0.17 0.17	450 450	10x10.3	0.18	553
220	221	6.3x7.7	0.36	280	6.3x7.7	0.36	280	6.3x7.7	0.36	280	8x10 10x7.7	0.17 0.17	450 450	10x10	0.09	670	10x10.3	0.18	553
330	331	8x10	0.17	450	8x10 10x7.7	0.17 0.17	450 450	8x10 10x7.7	0.17 0.17	450 450	8x10.3	0.17	450	12.5x13.5	0.070	820	12.5x13.5	0.12	650
470	471	8x10 10x7.7	0.17 0.17	450 450	8x10 10x7.7	0.17 0.17	450 450	8x10 10x10	0.17 0.09	450 670	10x10	0.09	670	12.5x16	0.060	950	16x16.5	0.073	1,000
680	681	8x10.3 10x7.7	0.17 0.17	450 450	10x10	0.09	670	10x10.3	0.09	670	12.5x13.5	0.070	820	12.5x16	0.060	950	16x16.5	0.073	1,000
1,000	102	8x10.3	0.17	450	10x10	0.09	670	12.5x13.5	0.070	820	12.5x16	0.060	950	16x16.5	0.054	1,260	18x16.5	0.066	1,500
1,500	152	10x10.3	0.09	670	12.5x13.5	0.070	820	12.5x16	0.060	950	16x16.5	0.054	1,260	18x16.5	0.048	1,500			
2,200	222	12.5x13.5	0.070	820	12.5x16	0.060	950	16x16.5	0.054	1,260	16x16.5	0.054	1,260						
3,300	332	12.5x16	0.060	950	16x16.5	0.054	1,260	16x16.5	0.054	1,260	18x16.5	0.048	1,500						
4,700	472	16x16.5	0.054	1,260	16x16.5	0.054	1,260	18x16.5	0.048	1,500									
6,800	682	18x16.5	0.048	1,500	18x16.5	0.048	1,500												
8,200	822	18x16.5	0.048	1,500															

μF	V. DC Contents	63V (1J)			80V (1K)			100V (2A)		
		$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA	$\phi D \times L$	Imp.	mA
4.7	4R7	5x5.7	1.90	70						
10	100	6.3x5.7	1.20	130						
22	220	6.3x7.7	0.90	150	8x10	1.3	130	8x10	1.3	130
33	330	8x10	0.50	280	8x10	1.3	130	10x10	0.7	200
47	470	8x10	0.50	280	10x10	0.7	200	10x10	0.7	200
100	101	10x10	0.25	450	10x10.3	0.7	200	12.5x13.5	0.32	450
150	151	12.5x13.5	0.15	700	12.5x13.5	0.32	450	12.5x16	0.26	550
220	221	12.5x13.5	0.15	700	12.5x16	0.26	550	16x16.5	0.17	650
330	331	16x16.5	0.082	900	16x16.5	0.17	650	18x16.5	0.15	850
470	471	16x16.5	0.082	900	18x16.5	0.15	850			
680	681	18x16.5	0.080	1,150						



Aluminum Electrolytic Capacitors

Part Numbering System

Product Code Guide - Radial Type

REA series	10 μ F	$\pm 20\%$	50V	Lead Forming Tape	Gas Type	5 ϕ \times 11L	Pb-free Wire + PET Sleeve	
REA	100	M	1H	TA	-	0511	P	
□□□	□□□	□	□□	□□	□	□□□□	□	□
①	②	③	④	⑤	⑥	⑦	⑧	⑨
Series	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration & Package	Rubber Type	Case Size	Lead Wire and Sleeve Type	Supplement Code

① Series:

Series is represented by a three-letter code. When the series name only has two letters, use a hyphen, ”-“, to fill the third blank. When the series name has 4 letters, use the following series codes. OCRZ→ORZ; OCRK→ORK; OCRU→ORU

② Capacitance:

Capacitance in μ F is represented by a three-digit code. The first two digits are significant and the third digit indicates the number of zeros following the significant figure. “R” represents the decimal point for capacitance under 10 μ F.

Example:

Capacitance	0.1	0.47	1	4.7	10	47	100	470	1,000	4,700	10,000
Part number	OR1	R47	010	4R7	100	470	101	471	102	472	103

③ Tolerance:

J = -5% ~ +5%	K = -10% ~ +10%	M = -20% ~ +20%	V = -10% ~ +20%
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④ Rated voltage:

Rated voltage in volts (V) is represented by a two-digit code

Voltage (WV)	2.5	4	6.3	10	16	20	25	35	40	50	63	80	100
Code	0E	0G	0J	1A	1C	1D	1E	1V	1G	1H	1J	1K	2A
Voltage (WV)	160	200	220	250	330	350	400	420	450	500	525		
Code	2C	2D	2U	2E	2M	2V	2G	2P	2W	2H	2Y		

⑤ Lead configuration and package(Refer to page 19 ~ 21):

BK = Bulk Package	TA = Formed Lead Taping
FC = Formed & Cut Lead	SA = Straight Lead Taping
CC = Cut Lead	SD = Bent Cathode Lead
SF = Snap-in & Formed Cut Lead	BC = Bent & Cut Lead
SC = Snap-in & Cut Lead	

⑥ Rubber type:

- = Gas escape type	F = Flat rubber bung
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⑦ Case size:

The first two digits indicate case diameter and the last two digits indicate case length in mm.

ϕ D \times L	3 \times 5	4 \times 5	4 \times 7	5 \times 5	5 \times 7	5 \times 11	6.3 \times 5	6.3 \times 5.5	6.3 \times 6.5	6.3 \times 7	6.3 \times 8
Code	0305	0405	0407	0505	0507	0511	0605	0605*	0606*	0607	0608*
ϕ D \times L	6.3 \times 11	6.3 \times 15	8 \times 5	8 \times 7	8 \times 8	8 \times 9	8 \times 10	8 \times 11.5	8 \times 12	8 \times 15	8 \times 20
Code	0611	0615	0805	0807	0808*	0809	0810*	0811	0812*	0815	0820
ϕ D \times L	10 \times 9	10 \times 10	10 \times 12.5	10 \times 16	10 \times 20	10 \times 25	10 \times 30	10 \times 35	10 \times 40	10 \times 45	10 \times 50
Code	1009	1010*	1012	1016	1020	1025	1030	1035	1040	1045	1050
ϕ D \times L	12.5 \times 16	12.5 \times 20	12.5 \times 25	12.5 \times 30	12.5 \times 35	12.5 \times 40	12.5 \times 45	12.5 \times 50	16 \times 16	16 \times 20	16 \times 25
Code	1316	1320	1325	1330	1335	1340	1345	1350	1616	1620	1625
ϕ D \times L	16 \times 31.5	16 \times 35.5	16 \times 40	16 \times 45	16 \times 50	18 \times 16	18 \times 20	18 \times 25	18 \times 31.5	18 \times 35.5	18 \times 40
Code	1632	1636	1640	1645	1650	1816	1820	1825	1832	1836	1840
ϕ D \times L	18 \times 45	18 \times 50	20 \times 40	20 \times 45	20 \times 50	22 \times 40	22 \times 45	22 \times 50	25 \times 40		
Code	1845	1850	2040	2045	2050	2240	2245	2250	2540		

Note 1: Size code in mark of “*” are for OP-CAP.

Note 2: The case size of 3 ϕ \times 5L, 12.5 ϕ \times 16L, 16 ϕ \times 16L, 16 ϕ \times 20L, 18 ϕ \times 16L, 18 ϕ \times 20L, 18 ϕ \times 25L are used flat rubber bung.



Aluminum Electrolytic Capacitors

Part Numbering System

⑧ Lead wire and sleeve type:

None = Pb free wire + PVC sleeve (Standard design)	P = Pb-free wire + PET sleeve
B = Sn-Bi wire + PVC sleeve	T = Sn-Pb wire + PET sleeve
C = Sn-Pb wire + PVC sleeve	

* For Organic Conductive Polymer capacitor (OP-CAP), the **standard design** is Pb-free wire and coating case.

* For 125°C capacitor (RUA, RUK series), the **standard design** is Pb-free wire and PET sleeve.

* For RGL, RQL, RPL series, the **standard design** is Pb-free wire, flat rubber and PET sleeve.

* When the following supplement code is needed, use a hyphen, “ - “, to fill the blank of “Lead Wire and Sleeve Type”.

⑨ Supplement code (Optional):

For special control purposes



Aluminum Electrolytic Capacitors

Part Numbering System

Product code guide - SMD Type

VE series	10 μ F	$\pm 20\%$	16V	Carrier Tape		4 ϕ \times 5.3L	Pb-free and PET coating case	
VE-	100	M	1C	TR	-	0405		
□□□	□□□	□	□□	□□	□	□□□□	□	
①	②	③	④	⑤	⑥	⑦	⑧	⑨
Series	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size	Lead Wire and Coating Type	Supplement Code

① Series:

Series is represented by a three-letter code. When the series name only has two letters, use a hyphen, “-”, to fill the third blank. When the series name has 4 letters, use the following series codes. OCVZ→OVZ; OCVU→OVU

② ~ ④: Please refer to **Product Code Guide - Radial Type**

⑤ Package:

TR	Reel package with reel diameter 380 mm
TM	Reel package with reel diameter 450 mm
T-	Tray package for case diameter 12.5 ~ 18mm

⑥ Terminal:

-	No dummy terminal
A	Stead for the automotive application (10G)
G	Stead for super high G shock version (50G)

⑦ Case size:

The first two digits indicate case diameter and the last two digits indicate case length in mm.

ϕ D \times L	3 \times 5.3	4 \times 4.5	4 \times 5.3	4 \times 5.7	5 \times 4.5	5 \times 5.3	5 \times 5.7	5 \times 5.9	6.3 \times 4.5	6.3 \times 5.3
Code	0305	0404	0405	0406	0504	0505	0506	0506*	0604	0605
ϕ D \times L	6.3 \times 5.7	6.3 \times 5.9	6.3 \times 7.0	6.3 \times 7.7	8 \times 6.5	8 \times 6.7	8 \times 10	8 \times 12	10 \times 7.7	10 \times 10(9.9)
Code	0606	0606*	0607*	0607⁽¹⁾	0806	0807*	0810	0812*	1008	1010
ϕ D \times L	10 \times 12.7	12.5 \times 13.5	12.5 \times 16	16 \times 16.5	18 \times 16.5					
Code	1013*	1313	1316	1616	1816					

Note: Size code in mark of “*” are for OP-CAP; Size code in mark of “(1)” for OP-CAP is 0608.

⑧ Lead wire and coating type:

None = Pb free wire + PET coating case (Standard design)	E = Sn-Bi wire + PET coating case
P = Sn-Pb wire + PET coating case	B = Sn-Bi wire + coating case

* When the following supplement code is needed, use a hyphen, “-”, to fill the blank of “Lead wire and coating type”.

⑨ Supplement code (Optional):

For special control purpose



Aluminum Electrolytic Capacitors

Part Numbering System

Product Code Guide – Snap-in Type

LS Series	100 μ F	$\pm 20\%$	400V	3-pin Terminal	Terminal Length 4.0mm	22 ϕ \times 30L	Pb-free Terminal + PET Sleeve	
LS-	101	M	2G	L3	A	2230	P	
<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>	
①	②	③	④	⑤	⑥	⑦	⑧	⑨
Series	Capacitance	Capacitance Tolerance	Rated Voltage	Terminal Type	Terminal Length	Case Size	Terminal and Sleeve Type	Supplement Code

① ~ ④: Please Refer to **Product Code Guide - Radial Type**

⑤ Terminal type(Refer to page 22):

Terminal type(pins)	2 (Standard)	3		4	5	Vibration-resistant	Horizontal Mounting	
Terminal code	--	L3	S3	L4	L5	T2	H2	G2

⑥ Terminal length:

Terminal length(mm)	4.0	6.3
Terminal code	A	-

⑦ Case Size:

The first two digits indicate case diameter in mm. The last two digits indicate case length in mm.

ϕ D \times L	20 \times 25	20 \times 30	20 \times 35	20 \times 40	20 \times 45	20 \times 50	22 \times 25	22 \times 30	22 \times 35	22 \times 40	22 \times 45
Code	2025	2030	2035	2040	2045	2050	2225	2230	2235	2240	2245
ϕ D \times L	22 \times 50	25 \times 25	25 \times 30	25 \times 35	25 \times 40	25 \times 45	25 \times 50	30 \times 25	30 \times 30	30 \times 35	30 \times 40
Code	2250	2525	2530	2535	2540	2545	2550	3025	3030	3035	3040
ϕ D \times L	30 \times 45	30 \times 50	35 \times 25	35 \times 30	35 \times 35	35 \times 40	35 \times 45	35 \times 50	35 \times 60	35 \times 70	35 \times 80
Code	3045	3050	3525	3530	3535	3540	3545	3550	3560	3570	3580
ϕ D \times L	35 \times 90	35 \times 100	40 \times 40	40 \times 45	40 \times 50	40 \times 60	40 \times 70	40 \times 80	40 \times 90	40 \times 100	
Code	3590	35A0	4040	4045	4050	4060	4070	4080	4090	40A0	

⑧ Terminal and sleeve type

None = Pb free terminal + PVC sleeve (Standard design)	T = Sn-Pb terminal + PET sleeve
P = Pb-free terminal + PET sleeve	C = Sn-Pb terminal + PVC sleeve

* When the following supplement code is needed, use a hyphen, “-”, to fill the blank of “Terminal and Sleeve Type”.

* If the capacitor does not need bottom insulation plate or needed rilled construction, please consult Lelon.

⑨ Supplement code (Optional):

For special control purposes



Aluminum Electrolytic Capacitors

Part Numbering System

Product Code Guide - Screw Type

MEA series	3300 μ F	$\pm 20\%$	400V	Rills +Stud Bottom Case	M5 Post	64 ϕ × 115L	Pb-free Terminal + PVC Sleeve	
MEA	332	M	2G	H	-	C115		
□□□	□□□	□	□□	□	□	□□□□	□	
①	②	③	④	⑤	⑥	⑦	⑧	⑨
Series	Capacitance	Capacitance Tolerance	Rated Voltage	Case Type	Terminal Type	Case Size	Terminal and Sleeve Type	Supplement Code

① ~ ④: Please refer to **Product Code Guide - Radial Type**

⑤ Case type:

- = Plain Case + Mounting clamp	S = Plain + Stud Bottom Case
N = Rilled Case + Mounting clamp	H = Rilled + Stud Bottom Case
R = Rilled Case	

⑥ Terminal type:

Terminal Type	Post Diameter (mm)	Height (± 1 mm)	For Case Diameters	Code
M5 Post, Small	8	6.5	35	A
M5 Post	10	6.5	51 ~ 90	-
M5 Post, High Current	17.4	6.5	77 ~ 90	C
M6 Post, High Current	17.4	6.5	77 ~ 90	D

⑦ Case size:

The first one digit indicates case diameter and the last three digits indicate case length in mm.

ϕ D×L	35×53	35×65	35×75	35×83	35×100	35×121	51×75	51×83	51×96	51×100	51×115
Code	A053	A065	A075	A083	A100	A121	B075	B083	B096	B100	B115
ϕ D×L	51×121	51×130	64×96	64×100	64×115	64×121	64×130	64×144	77×96	77×115	77×121
Code	B121	B130	C096	C100	C115	C121	C130	C144	D096	D115	D121
ϕ D×L	77×130	77×144	77×155	90×130	90×157	90×196	90×236				
Code	D130	D144	D155	E130	E157	E196	E236				

⑧ Terminal and sleeve type

None = Pb-free terminal + PVC sleeve

* When the following supplement code is needed, use a hyphen, “-”, to fill the blank of “Terminal and sleeve type” .

⑨ Supplement code (Optional):

For special control purposes

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