

REA Series

Features

- 85°C, 2,000 ~ 3,000 hours assured
- Standard series for general purposes
- RoHS Compliance

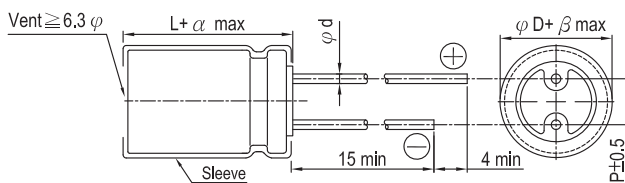


Sleeve & Marking Color: Blue & Black

Specifications

Items	Performance																																																																		
Category Temperature Range	-40°C ~ +85°C																																																																		
Capacitance Tolerance	±20% (at 120Hz, 20°C)																																																																		
Leakage Current (at 20°C)	<table border="1"> <tr> <td>Rated voltage</td> <td>≤ 100V</td> <td>> 100V</td> </tr> <tr> <td>Time</td> <td>after 2 minutes</td> <td>after 5 minutes</td> </tr> <tr> <td>Leakage Current</td> <td>I = 0.01CV or 3 (μA) whichever is greater</td> <td>CV ≤ 1,000 I = 0.03CV + 15(μA) CV > 1,000 I = 0.02CV + 25(μA)</td> </tr> </table> <p>Where, C = rated capacitance in μF V = rated DC working voltage in V</p>	Rated voltage	≤ 100V	> 100V	Time	after 2 minutes	after 5 minutes	Leakage Current	I = 0.01CV or 3 (μA) whichever is greater	CV ≤ 1,000 I = 0.03CV + 15(μA) CV > 1,000 I = 0.02CV + 25(μA)																																																									
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Tanδ (at 120 Hz, 20°C)	<table border="1"> <tr> <td>Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Tanδ (max)</td> <td>0.23</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> <td>0.12</td> <td>0.14</td> <td>0.17</td> <td>0.20</td> <td>0.25</td> <td>0.25</td> </tr> </table> <p>When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase.</p>	Rated Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	Tanδ (max)	0.23	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.12	0.14	0.17	0.20	0.25	0.25																																				
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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"> <tr> <td colspan="2">Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td rowspan="4">Impedance Ratio</td> <td>Z(-25°C)</td> <td>φD < 16</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td rowspan="2">3</td> <td rowspan="2">6</td> <td rowspan="2">8</td> <td rowspan="2">12</td> <td rowspan="2">14</td> <td rowspan="2">16</td> </tr> <tr> <td>/Z(+20°C)</td> <td>φD ≥ 16</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z(-40°C)</td> <td>φD < 16</td> <td>10</td> <td>8</td> <td>6</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td rowspan="2">4</td> <td rowspan="2">8</td> <td rowspan="2">10</td> <td rowspan="2">16</td> <td rowspan="2">18</td> <td rowspan="2">20</td> </tr> <tr> <td>/Z(+20°C)</td> <td>φD ≥ 16</td> <td>18</td> <td>16</td> <td>12</td> <td>10</td> <td>8</td> <td>8</td> <td>6</td> <td>6</td> </tr> </table>	Rated Voltage		6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	Impedance Ratio	Z(-25°C)	φD < 16	6	4	3	3	2	2	2	3	6	8	12	14	16	/Z(+20°C)	φD ≥ 16	8	6	4	4	3	3	3	Z(-40°C)	φD < 16	10	8	6	6	4	3	3	4	8	10	16	18	20	/Z(+20°C)	φD ≥ 16	18	16	12	10	8	8	6	6
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Endurance	<table border="1"> <tr> <td>Test Time</td> <td>2,000 Hrs for φD ≤ 8mm 3,000 Hrs for φD ≥ 10mm</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Tanδ</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 2,000 / 3,000 hours at 85°C.</p>	Test Time	2,000 Hrs for φD ≤ 8mm 3,000 Hrs for φD ≥ 10mm	Capacitance Change	Within ±20% of initial value	Tanδ	Less than 200% of specified value	Leakage Current	Within specified value																																																										
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Shelf Life Test	<table border="1"> <tr> <td>Test Time</td> <td>1,000 Hrs</td> </tr> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Tanδ</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </table> <p>* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 85°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements for 160 ~ 450V (Refer to JIS C 5101-4 4.1).</p>	Test Time	1,000 Hrs	Capacitance Change	Within ±20% of initial value	Tanδ	Less than 200% of specified value	Leakage Current	Within specified value																																																										
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Ripple Current & Frequency Multipliers	<table border="1"> <tr> <td></td> <td>Freq. (Hz)</td> <td>60 (50)</td> <td>120</td> <td>500</td> <td>1k</td> <td>10k up</td> </tr> <tr> <td rowspan="3">Cap. (μF)</td> <td>Under 100</td> <td>0.70</td> <td>1.00</td> <td>1.30</td> <td>1.40</td> <td>1.50</td> </tr> <tr> <td>100 < C ≤ 1,000</td> <td>0.75</td> <td>1.00</td> <td>1.20</td> <td>1.30</td> <td>1.35</td> </tr> <tr> <td>1,000 up above</td> <td>0.80</td> <td>1.00</td> <td>1.10</td> <td>1.12</td> <td>1.15</td> </tr> </table>		Freq. (Hz)	60 (50)	120	500	1k	10k up	Cap. (μF)	Under 100	0.70	1.00	1.30	1.40	1.50	100 < C ≤ 1,000	0.75	1.00	1.20	1.30	1.35	1,000 up above	0.80	1.00	1.10	1.12	1.15																																								
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Diagram of Dimensions

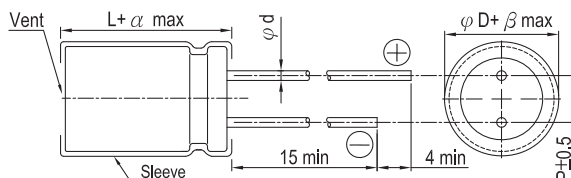


Lead Spacing and Diameter

Unit: mm

φD	5	6.3	8	10	12.5	16	18	22	25
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	12.5
φd	0.5		0.6			0.8		1.0	
α	L < 20: 1.5, L ≥ 20: 2.0								2.0
β	0.5								

The case size of 12.5×16, 16×16, 16×20, 18×16, 18×20 and 18×25 are suitable for below diagram:



All product specifications in the catalog are subject to change without notice. (CAT. 2016E1)



Dimension: $\phi D \times L$ (mm)

Ripple Current: mA/rms at 120 Hz, 85°C

Dimension & Permissible Ripple Current

μF	V. DC Contents	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
		$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
2.2	2R2											5×11	29			5×11	33
3.3	3R3											5×11	35			5×11	40
4.7	4R7											5×11	42			5×11	48
10	100											5×11	65	5×11	70	5×11	59
22	220											5×11	95	6.3×11	115	6.3×11	115 8×11.5
33	330									5×11	108	6.3×11	136 5×11	6.3×11	140	8×11.5	145
47	470							5×11	115	5×11	130	6.3×11	165	6.3×11	170	10×12.5	235
100	101					5×11	160	6.3×11	190	6.3×11	210	8×11.5	260	8×11.5	245 10×12.5	10×16	325
220	221			5×11	220	6.3×11	260	8×11.5	320	8×11.5	385	10×12.5	455	10×16	490	12.5×20 16×16	640 625
330	331			6.3×11	290	6.3×11	290	8×11.5	440	10×12.5	490	10×16	585	10×20 12.5×16	710 675	16×20 18×16	695 685
470	471			6.3×11	350	8×11.5	440	10×12.5	545	10×16	740	10×20 12.5×16	755 610	16×16 12.5×20	910 900	16×25	910
1,000	102	8×11.5	540	10×12.5 8×11.5	650 550	10×12.5	635	10×20 12.5×16	955 830	12.5×20 16×16	1,145 1,010	12.5×25 16×20	1,340 1,160	16×20	1,260	18×40	1,820
2,200	222	10×16	845	10×20 12.5×16	1,070 970	12.5×16 16×16	930 1,160	12.5×25 16×16	1,540 1,150	16×20	1,390	16×35.5	1,960	18×31.5	2,040		
3,300	332	10×20 12.5×16	1,185 960	12.5×20	1,420	12.5×20 16×16	1,450 1,240	16×20	1,490	16×31.5 18×25	2,070 1,970	18×35.5	2,500	18×40	2,575		
4,700	472	12.5×20	1,545	12.5×25 16×16	1,780 1,420	16×20 18×16	1,600 1,820	16×25 18×25	2,100 2,170	18×35.5	2,700	22×40	3,040				
6,800	682	12.5×25	1,880	16×20 18×20	1,700 1,870	16×25 18×20	2,280 1,890	16×35.5 18×31.5	2,475 2,550	22×40	2,900	22×45	3,185				
10,000	103	16×20 18×20	2,000 2,020	16×25 18×25	2,150 2,370	18×31.5 16×35.5	2,590 2,450	18×40	3,080	22×45	3,400						
15,000	153	16×31.5 18×25	2,460 2,375	16×40 18×31.5	2,730 2,620	18×40	3,100	22×45 25×40	3,780 3,850								
22,000	223	18×31.5	2,780	18×40	3,370	22×40	3,900	25×45	4,290								
33,000	333	22×40	3,700														

μF	V. DC Contents	160V (2C)		200V (2D)		250V (2E)		350V (2V)		400V (2G)		450V (2W)	
		$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA	$\phi D \times L$	mA
1	010					5×11	18	5×11	18	5×11	22	6.3×11	25
2.2	2R2			5×11	29	6.3×11	33	6.3×11	33	6.3×11	33	8×11.5	45
3.3	3R3			6.3×11	46	6.3×11	46	8×11.5	50	8×11.5	50	10×12.5	65
4.7	4R7			6.3×11	50	8×11.5	55	8×11.5	60	8×11.5 10×12.5	55 80	8×11.5 10×12.5	55 80
10	100	8×11.5	75	8×11.5	81	10×12.5	100	10×16	110	10×16	110	10×20	140
22	220	10×12.5	130	10×12.5	135	10×16	150	12.5×16	185	12.5×20	200	12.5×20	200
33	330	10×16	175	10×16	180	10×20 12.5×16	215 220	12.5×20 16×16	245 260	16×16	260	16×20	270
47	470	10×20 12.5×16	230 250	10×20 12.5×16	240 250	12.5×20	290	16×20 18×16	340 310	16×20	340	16×31.5	390
68	680	12.5×20	330	12.5×20 16×16	330 370	12.5×25	370	16×25 18×20	420 410	16×31.5	435	16×35.5	460
100	101	12.5×25	440	16×20 18×16	460 450	16×25	510	16×31.5 18×25	540 520	16×40 18×35.5	560 570	18×35.5	570
150	151	16×25	620	16×25 18×20	620 605	16×31.5 18×25	625 630	18×35.5	640	18×40	670	22×45	800
220	221	16×31.5 18×25	790 760	16×35.5	830	16×40 18×35.5	840 890	22×40	920	22×45 25×40	960 980	25×45	1,030
330	331	18×35.5	985	18×40	1,150	22×40	1,200	25×45	1,270				
470	471	18×40	1,150	22×40	1,400	22×45	1,470						

Part Numbering System

REA series 470 μF $\pm 20\%$ 16V Bulk Package Gas Type 8 $\phi \times 11.5L$ Pb-free and PET sleeve

REA **471** **M** **1C** **BK** - **0811**

Series Capacitance Capacitance Tolerance Rated Voltage Lead Configuration & Package Rubber Type Case Size Lead Wire and Sleeve type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 11.

Radial



Part Numbering System (Radial Type)

Product Code Guide

REA series	10μF	±20%	50V	Lead Forming Tape	Gas Type	5φ×11L	Pb-free Wire + PET Sleeve	
REA	100	M	1H	TA	-	0511		
□□□	□□□	□	□□	□□	□	□□□□	□	□
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 μF 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 10μF. Example:

Capacitance	0.1	0.47	1	4.7	10	47	100	470	1,000	4,700	10,000
Part number	0R1	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	50	63	80	100
Code	0E	0G	0J	1A	1C	1D	1E	1V	1H	1J	1K	2A
Voltage (WV)	160	200	250	315	350	400	420	450	500	525		
Code	2C	2D	2E	2F	2V	2G	2P	2W	2H	2Y		

⑤ Lead configuration and package (Please refer to page 18 ~ 20):

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 (Leads in Right Direction)
SC = Snap-in & Cut Lead	BU = Bent & Cut Lead (Leads in Left Direction)

⑥ Rubber type:

- = Gas escape type	F = Flat rubber bung
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Note: Meeting one of the below description which used flat rubber bung is the standard design, use a hyphen, "-":

1. Aluminum e-caps for case sizes of 3φ×5L, 12.5φ×16L, 16φ×16L, 16φ×20L, 18φ×16L, 18φ×20L, 18φ×25L;
2. OP-CAP for case sizes of 5φ, 6.3φ×6 ~ 8L and 8φ×8L in OCRZ, ORE, OCRK series;
3. Hybrid aluminum e-caps.



Part Numbering System (Radial Type)

⑦ Case size:

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

φ D×L	3×5	4×5	4×7	5×5	5×7	5×8	5×11	6.3×5	6.3×5.5	6.3×6 6.3×6.5	6.3×7
Code	0305	0405	0407	0505	0507	0508*	0511	0605	0605*	0606*	0607
φ D×L	6.3×8	6.3×11	6.3×15	8×5	8×6.5	8×7	8×8	8×9	8×10	8×11.5	8×12
Code	0608*	0611	0615	0805	0807*	0807	0808*	0809	0810*	0811	0812*
φ D×L	8×15	8×20	10×9	10×10	10×12.5 10×12*	10×16	10×20	10×25	10×30	10×35	10×40
Code	0815	0820	1009	1010*	1012	1016	1020	1025	1030	1035	1040
φ D×L	10×45	10×50	12.5×16	12.5×20	12.5×25	12.5×30	12.5×35	12.5×40	12.5×45	12.5×50	16×16
Code	1045	1050	1316	1320	1325	1330	1335	1340	1345	1350	1616
φ D×L	16×20	16×25	16×31.5	16×35.5	16×40	16×45	16×50	18×16	18×20	18×25	18×31.5
Code	1620	1625	1632	1636	1640	1645	1650	1816	1820	1825	1832
φ D×L	18×35.5	18×40	18×45	18×50	20×30	20×35	22×35	22×40	22×45	25×40	25×45
Code	1836	1840	1845	1850	2030	2035	2235	2240	2245	2540	2545

Note: 1. Size & size codes with a mark of "*" are for OP-CAP.

2. When a case size is required and not shown in the table, please contact with us for further discussion.

⑧ Lead wire and sleeve type:

None = Standard design Pb-free wire + PET sleeve (aluminum e-cap) Pb-free wire + Coating case (OP-CAP)	G = Pb-free wire + Black PET sleeve (for RGA & SG series only)
B = Sn-Bi wire + PET sleeve	T = Sn-Pb wire + PET sleeve
K / L = Automotive control code	

* When a supplement code following a blank digit code of lead wire and sleeve type (standard design), use a hyphen, " - ", to fill the blank digit.

* When the automotive control code is required, please contact with us for further discussion.

⑨ Supplement code (Optional):

For special control purposes



Part Numbering System (SMD Type)

Product Code Guide

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 Part Numbering System (Radial Type)

⑤ Package:

TR	Reel package
T-	Tray package for case diameter 12.5 ~ 18mm

⑥ Terminal:

-	No dummy terminal
A	For automotive application (10G)
K	Anti-vibration structure (30G)
G	Anti-vibration structure (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 5.8	5 \times 5.9	6.3 \times 4.4* 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 5.8	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 10 \times 9.9*
Code	0606	0606*	0607*	0607 0608*	0806	0807*	0810	0812*	1008	1010
ϕ D \times L	10 \times 12.6	12.5 \times 13.5	12.5 \times 16	16 \times 16.5	16 \times 21.5	18 \times 16.5	18 \times 21.5			
Code	1013*	1313	1316	1616	1621	1816	1821			

Note: 1. Size codes with a mark of "*" are used for OP-CAP only.

2. When a case size is required and not shown in the table, please contact with us for further discussion.

3. The case size "5 \times 5.8, 6.3 \times 5.8" is for VZS series only.

⑧ Lead wire and case coating type:

None = Pb free wire + PET coated case (Standard design)	E = Sn-Bi wire + PET coated case
B = Sn-Bi wire + coating case	K / L = Automotive control code

* When a supplement code following a blank digit code of lead wire and case coating type (standard design), use a hyphen, "-", to fill the blank digit.

* When the automotive control code is required, please contact with us for further discussion.

⑨ Supplement code (Optional):

For special control purposes

Part Numbering System (Snap-in Type)

Product Code Guide

LS Series	100μF	±20%	400V	3-pin Terminal	Terminal Length 4.0mm	22 φ ×30L	Pb-free Terminal + PET Sleeve	
LS-	101	M	2G	L3	A	2230		
□□□	□□□	□	□□	□□	□	□□□□	□	□
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

⑤ - ④: Please Refer to **Part Numbering System (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×L	20×20	20×25	20×30	20×35	20×40	20×45	20×50	22×25	22×30	22×35	22×40
Code	2020	2025	2030	2035	2040	2045	2050	2225	2230	2235	2240
φ D×L	22×45	22×50	25×25	25×30	25×35	25×40	25×45	25×50	30×25	30×30	30×35
Code	2245	2250	2525	2530	2535	2540	2545	2550	3025	3030	3035
φ D×L	30×40	30×45	30×50	35×25	35×30	35×35	35×40	35×45	35×50	35×60	35×70
Code	3040	3045	3050	3525	3530	3535	3540	3545	3550	3560	3570
φ D×L	35×80	35×90	35×100	40×40	40×45	40×50	40×60	40×70	40×80	40×90	40×100
Code	3580	3590	35A0	4040	4045	4050	4060	4070	4080	4090	40A0

Note: When a case size is required and not shown in the table, please contact with us for further discussion.

⑧ **Terminal and sleeve type**

None = Pb free terminal + PET sleeve (Standard design)
R = Pb free terminal + PET sleeve + Rilled
N = Pb free terminal + PET sleeve + No bottom insulation
L = Pb free terminal + PET sleeve + No bottom insulation +Rilled

* When a supplement code following a blank digit code of terminal and sleeve type (standard design), use a hyphen, " - ", to fill the blank digit.

* When the bottom insulation plate is not required or a rilled construction is necessary, please consult Lelon.

⑨ **Supplement code (Optional):**

For special control purposes