

SAMXON

Aluminum Electrolytic Capacitors



QC 080000



ISO 9001

ISO 14001



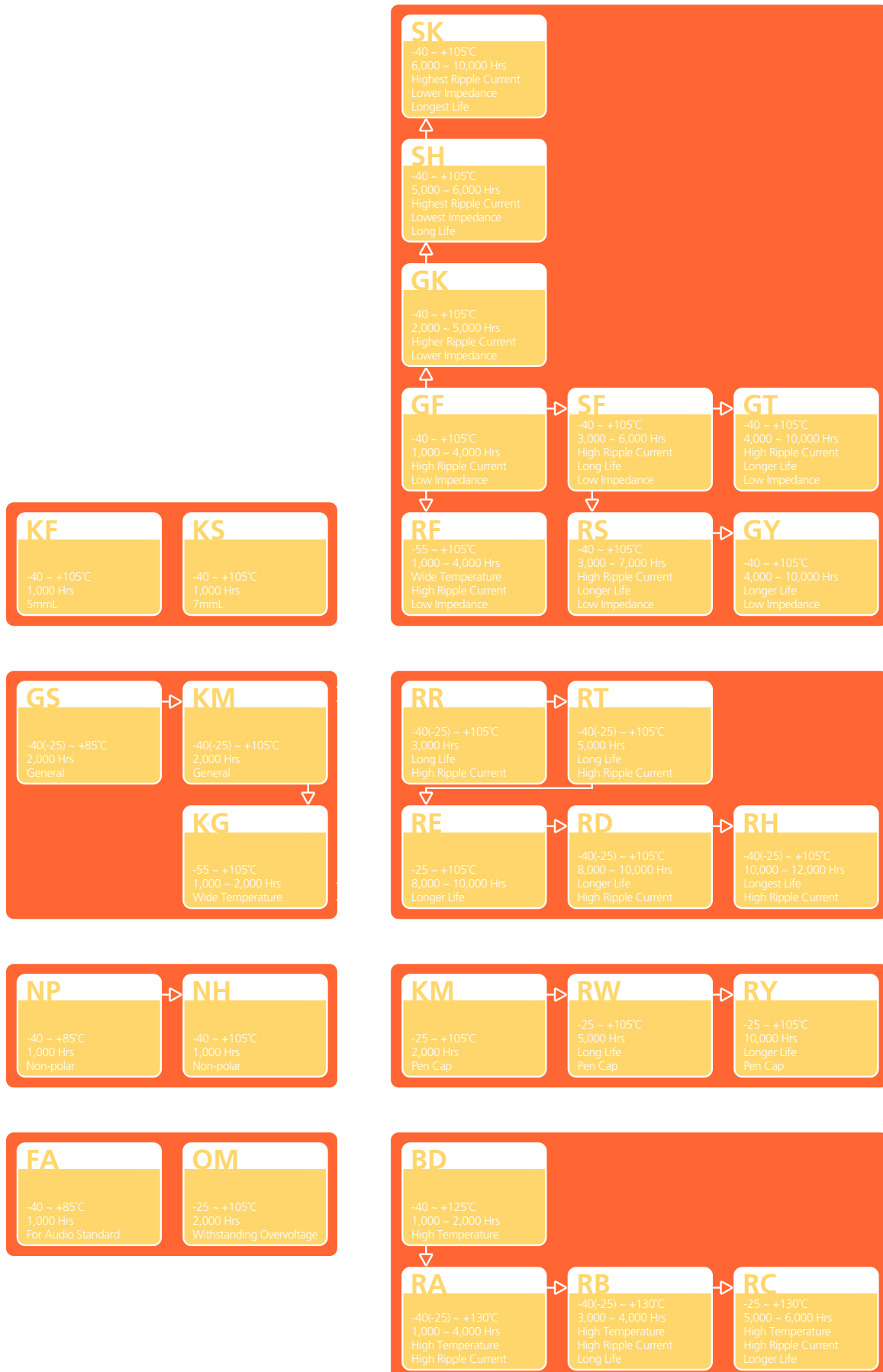
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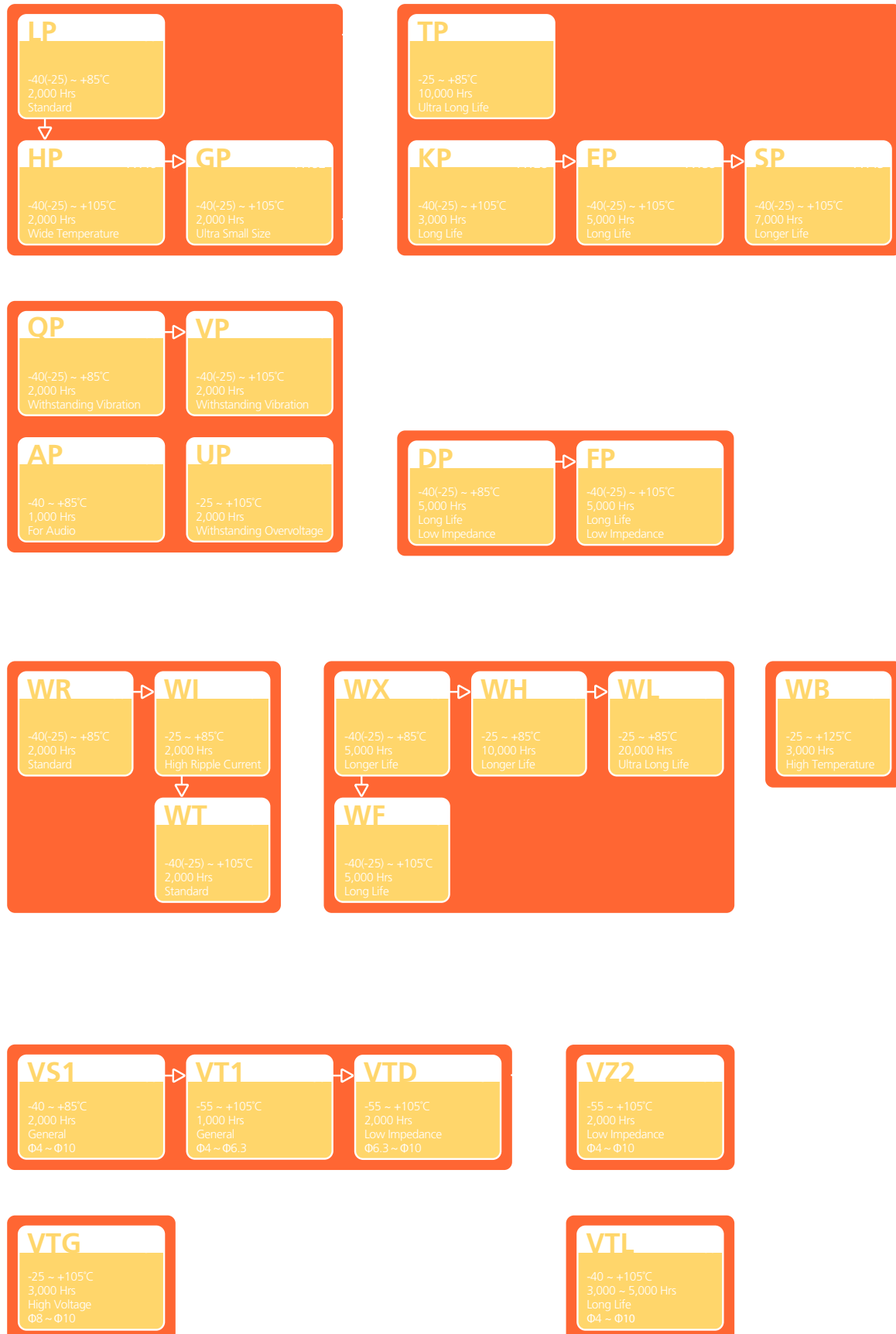
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019	Miniature Type 小型品
023	General Purpose 普通品
035	Low Impedance Type 低阻抗品
064	High Reliability Type 高可靠品
076	High Temperature Type 高溫度品
085	For Audio Type 音響用品
087	Non-polarized Type 無極性品
091	Pen Cap Type 筆型電容

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188	Surface Mount Type 貼片品





Series	Features (特點)	Letter Color	Sleeve Color	Temp. (°C)	Voltage (VDC)	Cap. (μF)	Load Life	Page
Miniature Type								小型品
General Purpose								普通品
Low Impedance Type								低阻抗品
High Reliability Type								高可靠品
High Temperature Type								高溫度品
For Audio Type								音響用品
Non-polarized Type								無極性品
Pen Cap Type								筆型電容
Standard Type								標準品

Series	Features (特點)	Letter Color	Sleeve Color	Temp. (°C)	Voltage (VDC)	Cap. (μF)	Load Life	Page
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High Reliability Type								高可靠品
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Screw Terminal Type								螺釘型
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Surface Mount Type								貼片品
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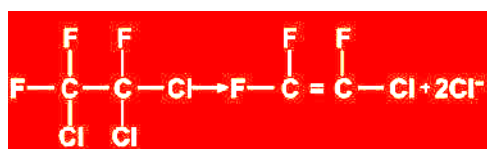
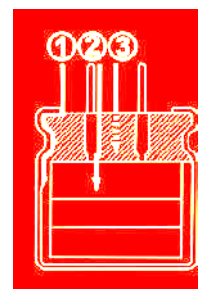


Case Diameter	Gap Required
Φ6.3~16	2mm or more
Φ18~35	3mm or more
Φ40 or more	5mm or more





Chemical Name	Structural Formula	Representative Brand Name
Trichlorotrifluoroethane	$C_2Cl_3F_3$	Freon TF, Daiflon S-3
Fluorotrichloromethane	CCl_3F	Freon-11, Daiflon S-1
Trichloroethane	$C_2H_3Cl_3$	Chloroethene
Trichloroethylene	C_2HCl_3	Trichlene
Methyl Chloride	CH_3Cl	MC

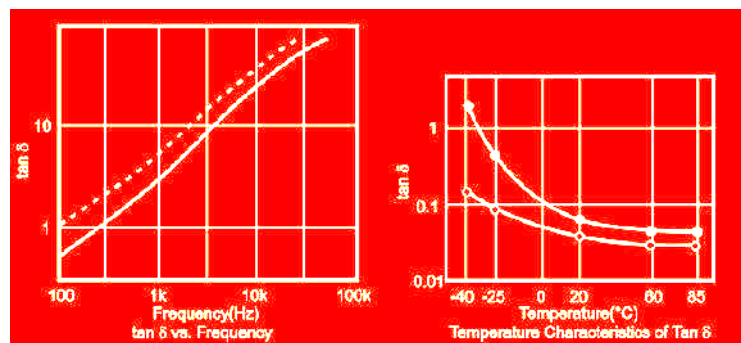
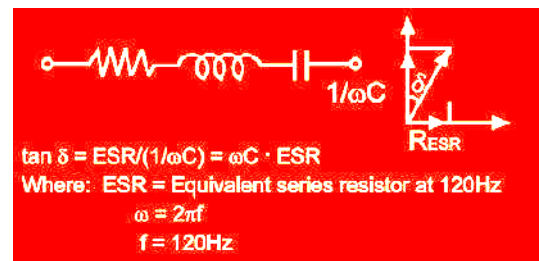
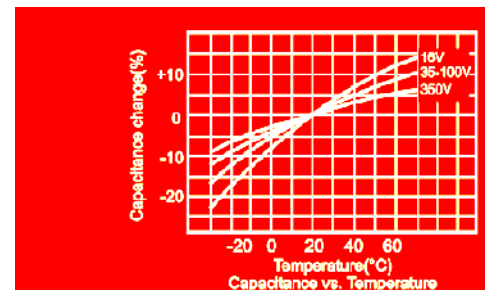
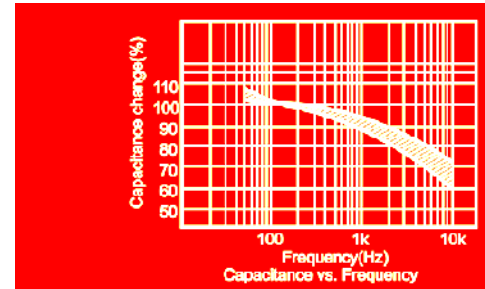


This chlorine ion reacts with aluminum as follows:



Then AlCl_3 resolves in water, and it becomes:

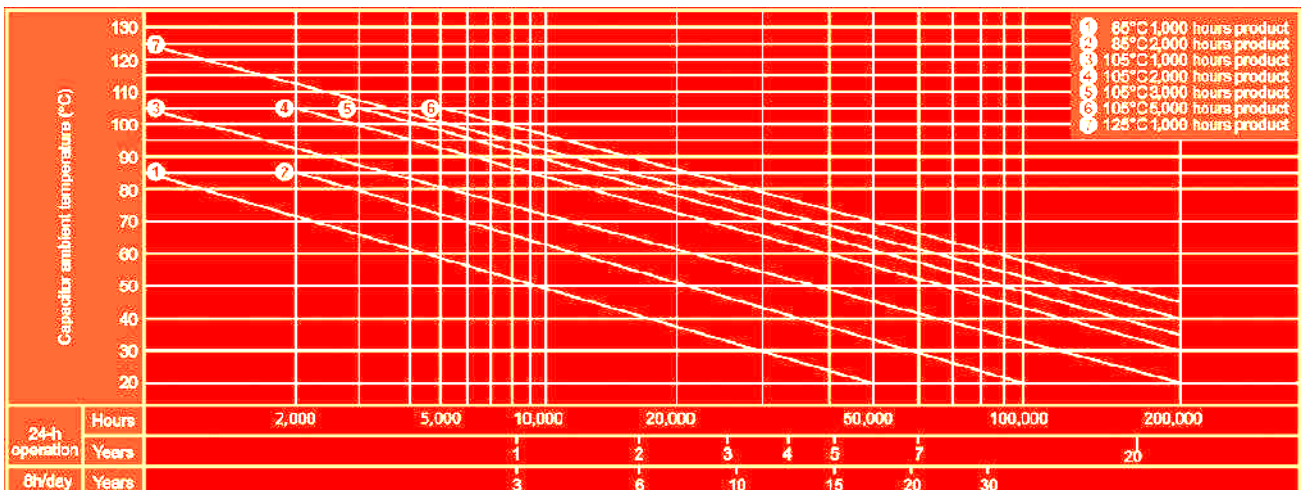
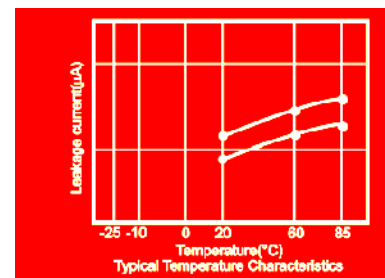
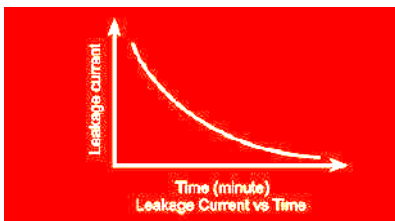
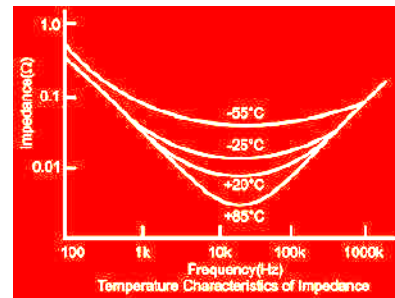
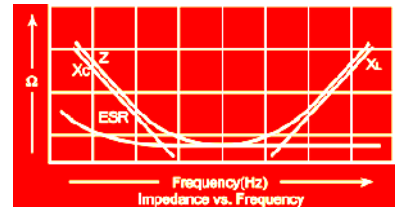




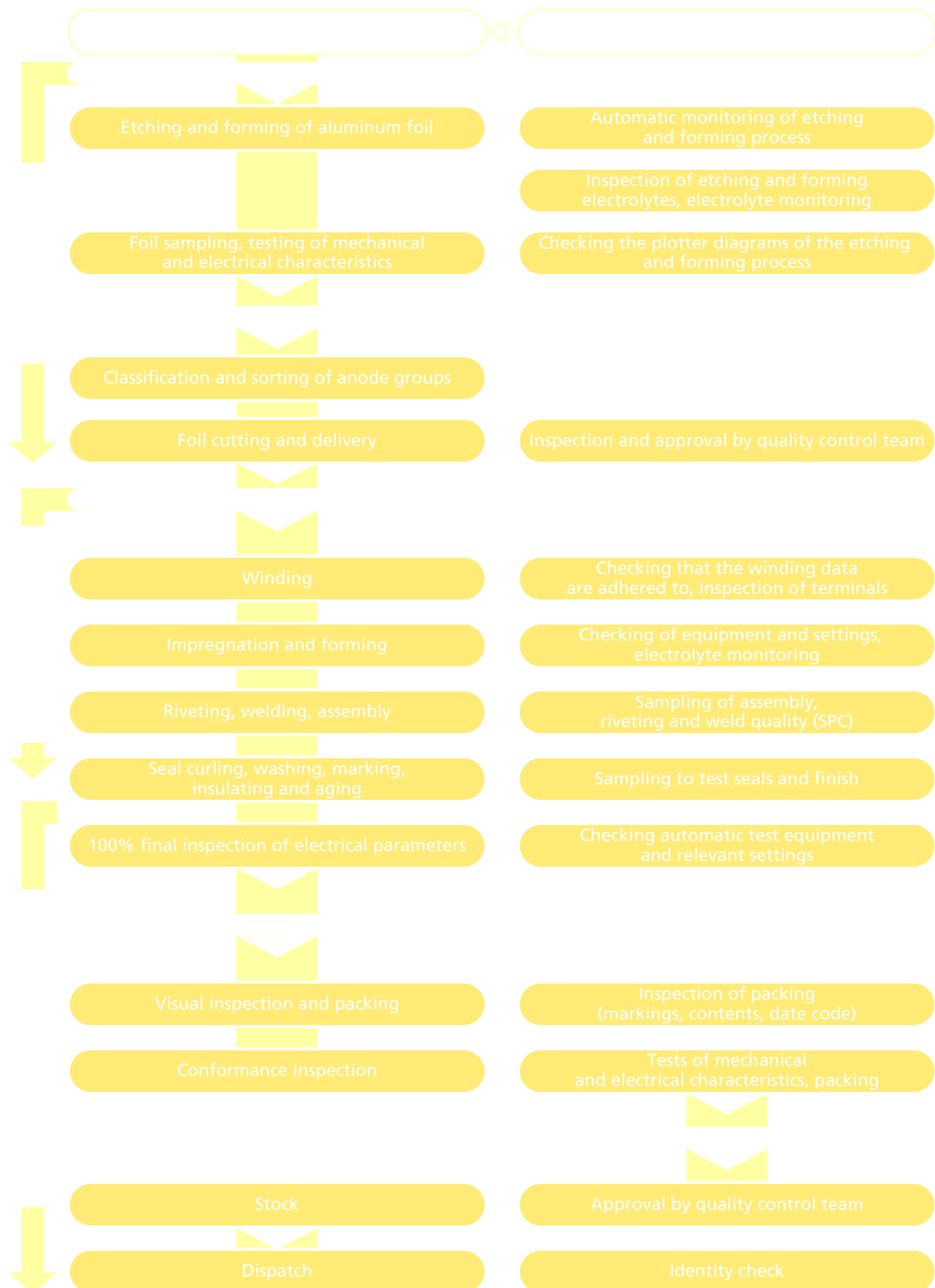
$$Z = \sqrt{ESR^2 + (XL - XC)^2}$$

Where: $X_c = 1/\omega C = 1/2\pi fC$

$$X_L = \omega L = 2\pi fL$$











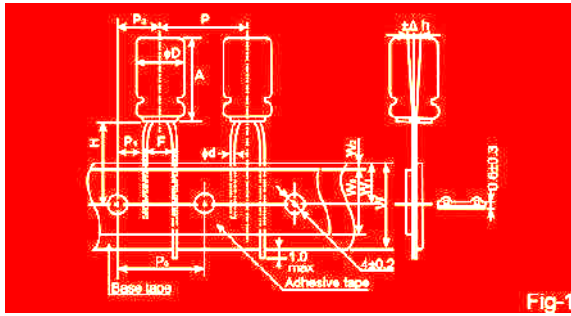


Fig-1

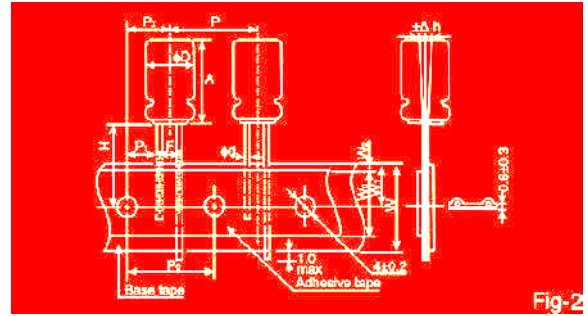


Fig-2

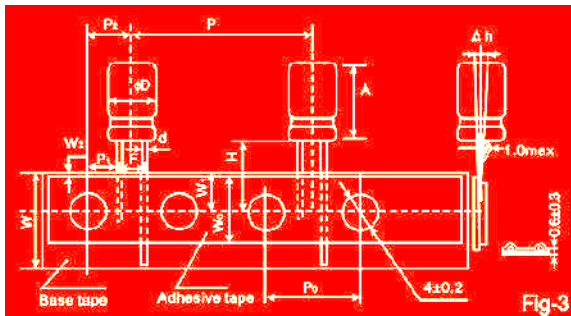


Fig-3

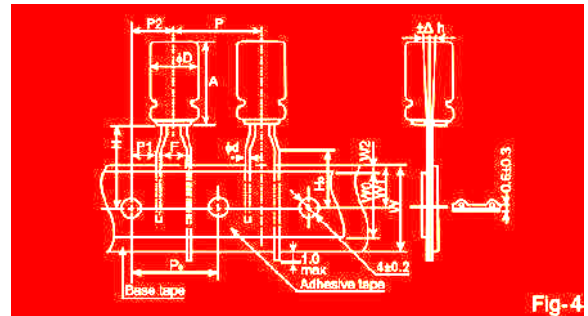
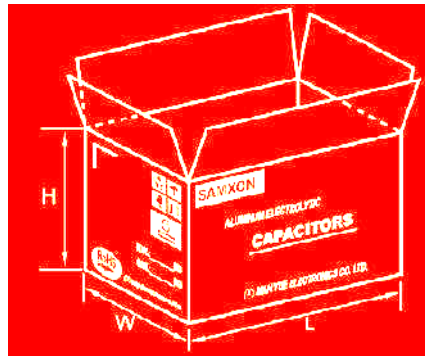


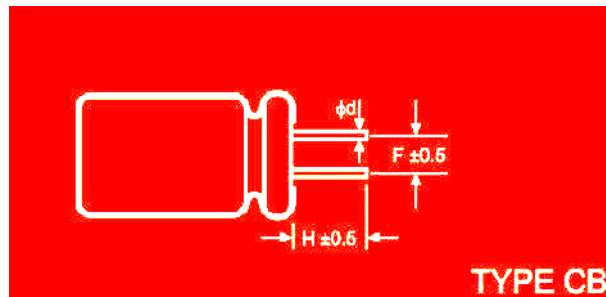
Fig-4



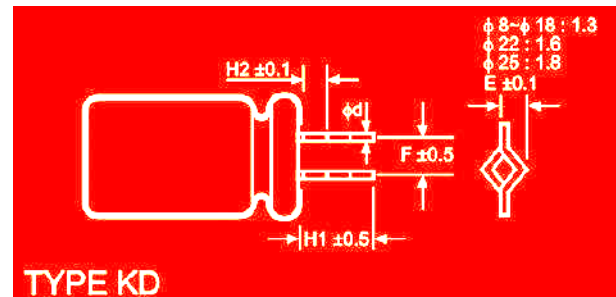
$\Phi D \times L$ (mm)	L (mm)	W (mm)	H (mm)	Inner Box Quantity	Outer Box Quantity
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Long Lead Wire Product				
$\Phi D \times L$ (mm)	Plastic Bag Quantity	Inner Box Quantity	Outer Box Quantity	

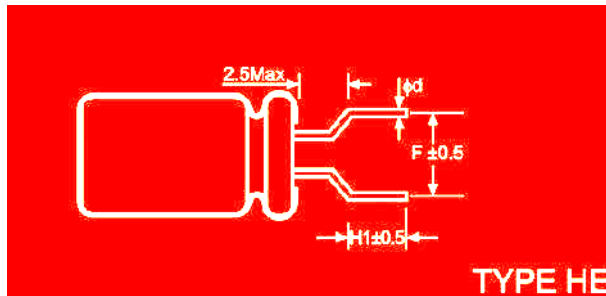
Snap-in Terminal Product					
$\Phi D \times L$ (mm)	Inner Box Quantity	Outer Box Quantity	$\Phi D \times L$ (mm)	Inner Box Quantity	Outer Box Quantity



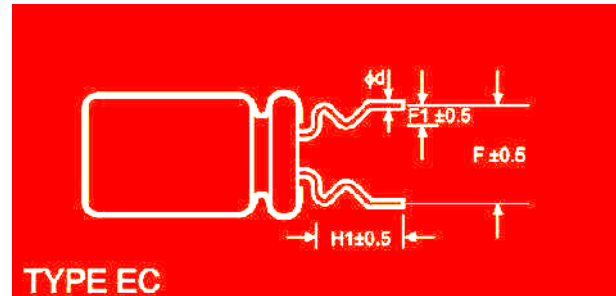
TYPE CB



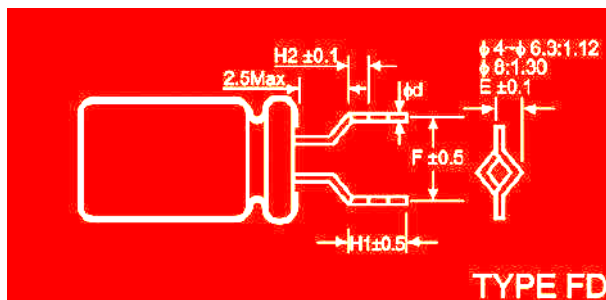
TYPE KD



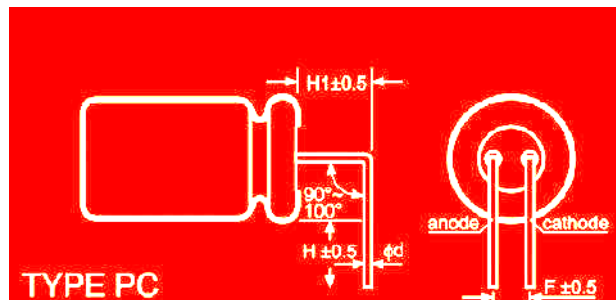
TYPE HE



TYPE EC



TYPE FD



TYPE PC

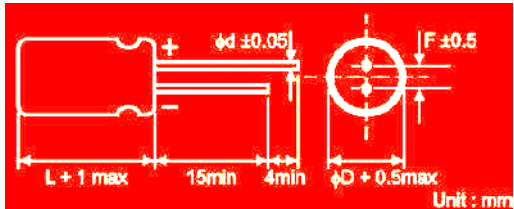
SHAPE CODE	ϕD	4	5	6.3	8 (L > 5mm)	10	13	16	18
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Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

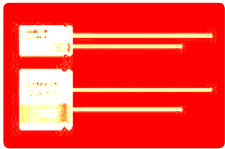
Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	KF	336	M	1C	E	05	RR

Voltage (Code)		4V (0G)		6.3V (0J)		10V (1A)		16V (1C)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

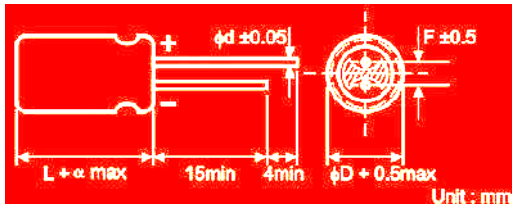
Voltage (Code)		25V (1E)		35V (1V)		50V (1H)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	KS	476	M	OJ	D	07	RR

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

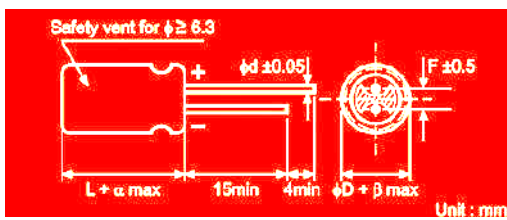
Voltage (Code)		35V (1V)		50V (1H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
$\tan \delta$ (max.)
Working Voltage (V)
$\tan \delta$ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C
Working Voltage (V)
Z-25°C / Z+20°C



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

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

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

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

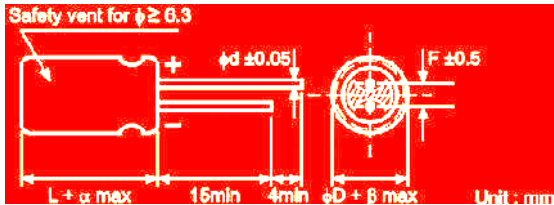
Voltage (Code)		400V (2G)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
$\tan \delta$ (max.)
Working Voltage (V)
$\tan \delta$ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C
Working Voltage (V)
Z-25°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	KM	337	M	1E	F	12	RR

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

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

Voltage (Code)		160V (2C)		200V (2D)		220V (2N)		250V (2E)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		350V (2V)		400V (2G)		420V (2M)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		500V (2H)		550V (25)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current

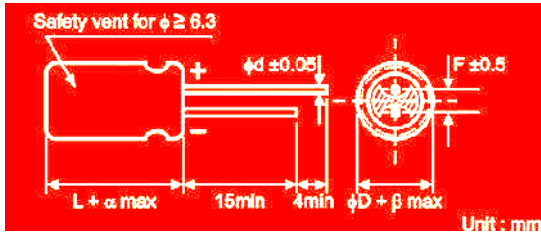




Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



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

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

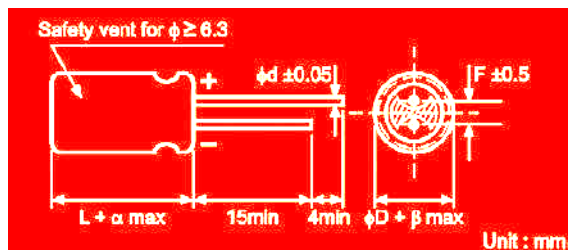
Voltage (Code)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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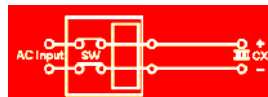
Working Voltage (V)
tan δ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C



1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	OM	107	M	2D	K	25	RR

Voltage (Code)		200V (2D)		400V (2G)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current

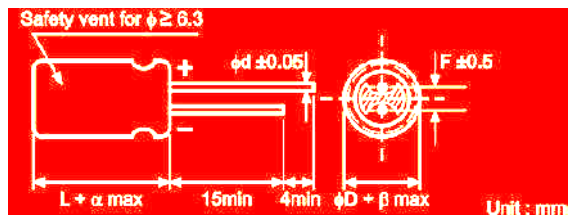




Item	Performance Characteristics
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Working Voltage (V)
$\tan \delta$ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

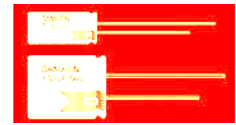


1	2.3	4.5 6	7	8.8	10	11 12	13 14
E	GF	108	M	OJ	G	1B	RR

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		25V (1E)			35V (1V)			50V (1H)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

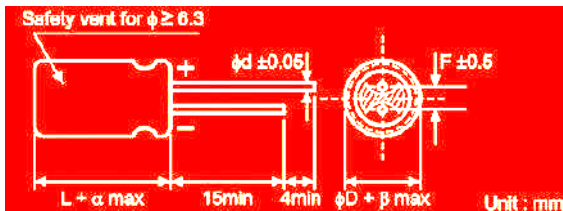
Voltage (Code)		63V (1J)			100V (2A)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
$\tan \delta$ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	SF	158	M	1A	G	20	RR

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		25V (1E)			35V (1V)			50V (1H)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

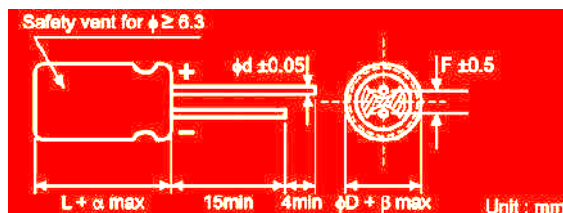
Voltage (Code)		63V (1J)			100V (2A)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
$\tan \delta$ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	GT	338	M	1A	I	25	RR

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		25V (1E)			35V (1V)			50V (1H)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		63V (1J)			100V (2A)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current



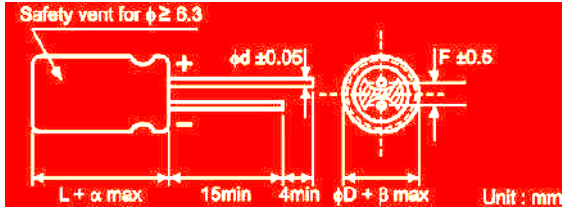
Item	Performance Characteristics
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1	2	3	4	5	6	7	8	9	10	11	12	13	14
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E	GK	227	M	1E	F	12	RR						
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	GK	227	M	1E	F	12	RR

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

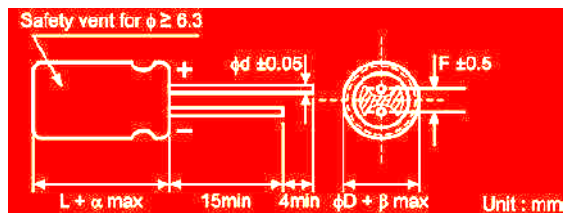
Voltage (Code)		25V (1E)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	SH	108	M	1C	G	16	RR

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

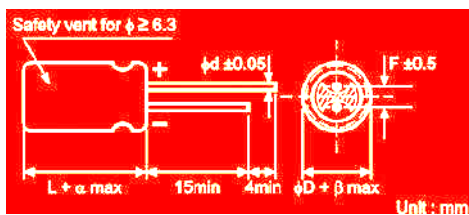
Voltage (Code)		25V (1E)			35V (1V)			50V (1H)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C



1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	SK	108	M	1C	G	16	RR

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current



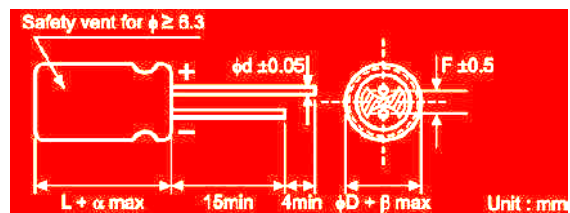
Voltage (Code)		25V (1E)			35V (1V)			50V (1H)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		63V (1J)			80V (1K)			100V (2A)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)	$\tan \delta$ (max.)
Z-25 °C / Z+20 °C	
Z-40 °C / Z+20 °C	



1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	RS	228	M	1V	K	30	RR

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		25V (1E)			35V (1V)			50V (1H)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		63V (1J)			100V (2A)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

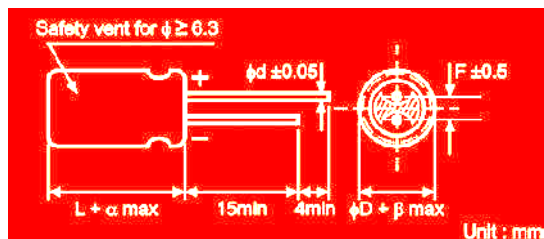




Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	GY	108	M	1A	G	16	RR

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		25V (1E)			35V (1V)			50V (1H)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

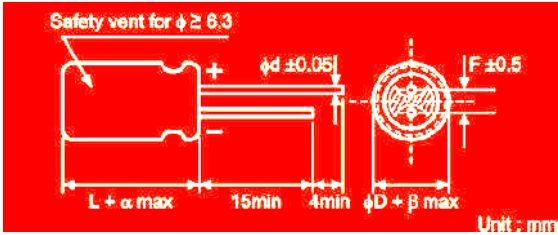
Voltage (Code)		63V (1J)			100V (2A)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

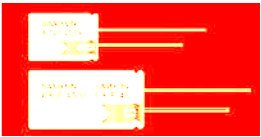


1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	RF	337	M	1C	F	12	RR

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		25V (1E)			35V (1V)			50V (1H)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		63V (1J)			100V (2A)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

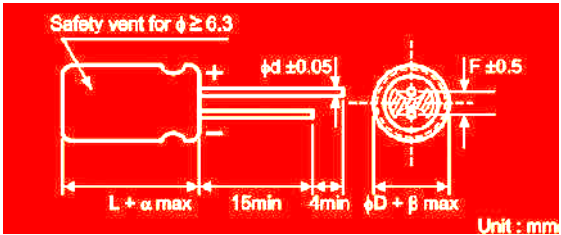


Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Surge Voltage (V)

Working Voltage (V)
Z-25°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	RR	227	M	2D	L	30	RR

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

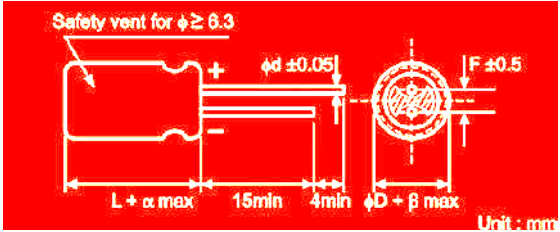
Voltage (Code)		400V (2G)		450V (2W)		500V (2H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C

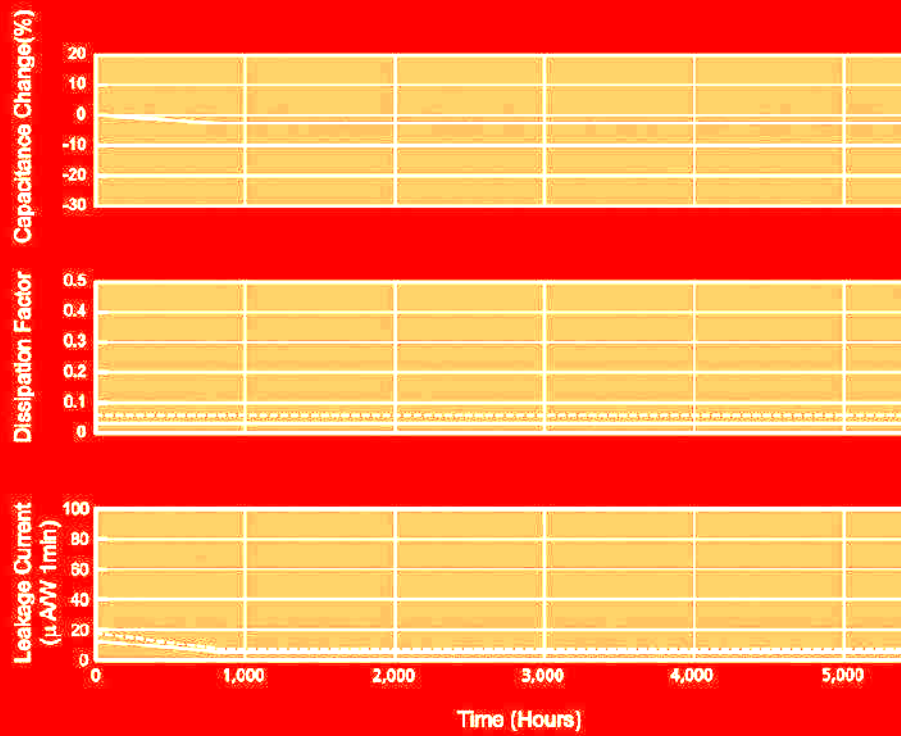
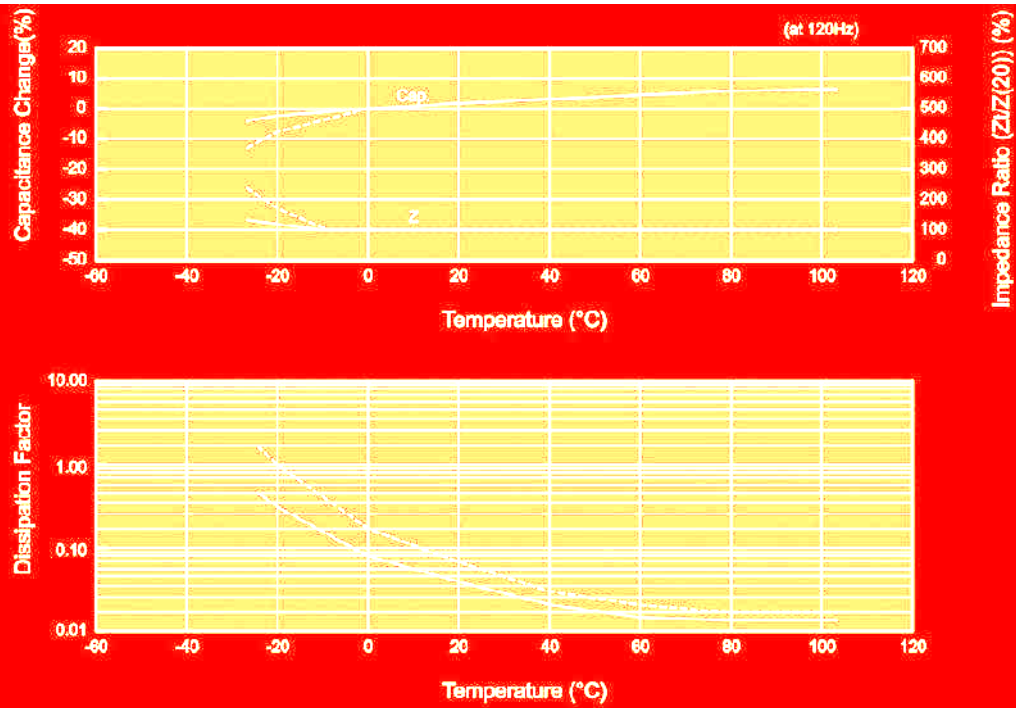


1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	RT	226	M	2E	G	20	RR

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



Voltage (Code)		400V (2G)		450V (2W)		500V (2H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

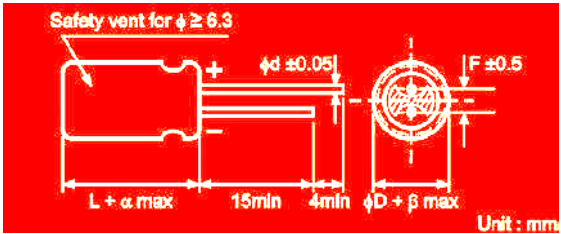




Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	RE	227	M	2D	L	30	RR

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

Voltage (Code)		400V (2G)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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	tan δ (max.)
1	0.000
2	0.000
3	0.000
4	0.000
5	0.000
6	0.000
7	0.000
8	0.000
9	0.000
10	0.000
11	0.000
12	0.000
13	0.000
14	0.000
15	0.000
16	0.000
17	0.000
18	0.000
19	0.000
20	0.000
21	0.000
22	0.000
23	0.000
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88	0.000
89	0.000
90	0.000
91	0.000
92	0.000
93	0.000
94	0.000
95	0.000
96	0.000
97	0.000
98	0.000
99	0.000
100	0.000

Rated Voltage (V)
Z-25°C / Z+20°C

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
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 214. **Figure 206**
 215. **Figure 207**
 216. **Figure 208**
 217. **Figure 209**

Technical drawing of a mechanical part. The drawing shows a cross-section of a part with a central hole. The hole has a diameter of $\phi d \pm 0.05$. The part has a total width of $F \pm 0.5$. The drawing includes a section line and a dimension line for the hole diameter.

The diagram shows a subject sitting at a table, looking at a video screen. A camera is positioned above the screen. A target is placed on the table. A horizontal arrow indicates the direction of movement. A vertical arrow indicates the direction of the target's position.

Timeline diagram showing the sequence of events in a trial:

- Segment 1: $L + \alpha \max$ (red)
- Segment 2: 15min (blue)
- Segment 3: 4min (green)
- Segment 4: $\phi D + \beta \max$ (red)

1	23	456	7	89	11 12	13 14	
E	BD	226	M	2V	K	20	BB

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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

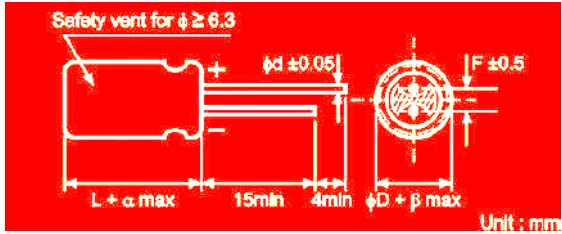
Voltage (Code)		400V (2G)		450V (2W)		500V (2H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	RH	226	M	2C	G	20	RR

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

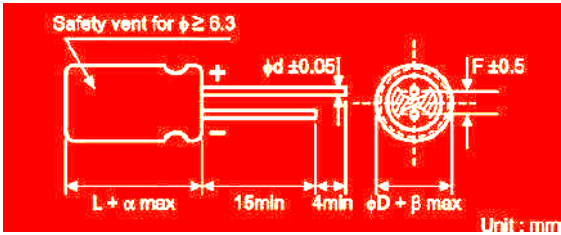
Voltage (Code)		400V (2G)		450V (2W)		500V (2H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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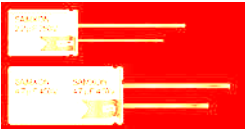
Working Voltage (V)
$\tan \delta$ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	BD	337	M	1C	F	12	RR

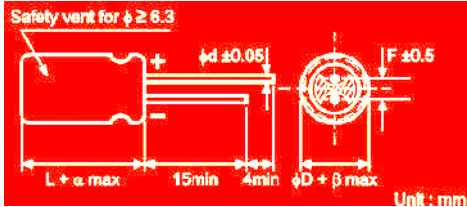
Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1E)		50V (1H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
------	-----------------------------

Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	RA	108	M	1C	G	20	RR

Voltage (Code)		10V (1A)			16V (1C)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		25V (1E)			35V (1V)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		50V (1H)			63V (1J)			100V (2A)		
Cap. (μF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		200V (2D)		250V (2E)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current

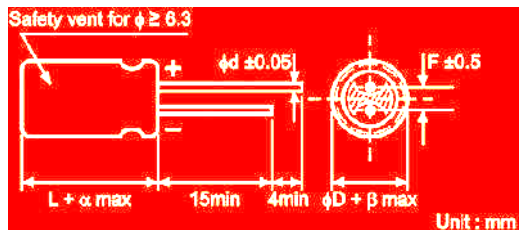
Voltage (Code)		350V (2V)		400V (2G)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	RB	107	M	2D	K	35	RR

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

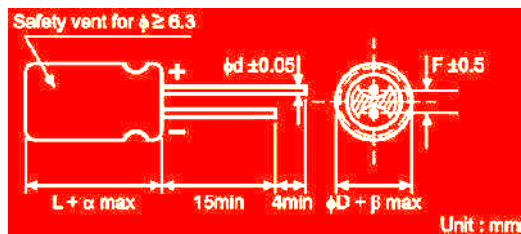
Voltage (Code)		400V (2G)		450V (2W)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	RC	106	M	2E	G	16	RR

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

Voltage (Code)		400V (2G)		450V (2W)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	FA	227	M	1E	G	16	RR

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

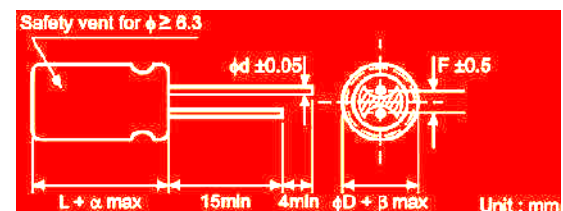
Voltage (Code)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
Tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	NP	107	M	1C	F	12	RR

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

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

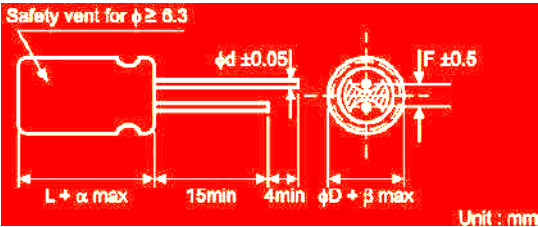


Item	Performance Characteristics
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1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	NH	476	M	1A	E	11	RR

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

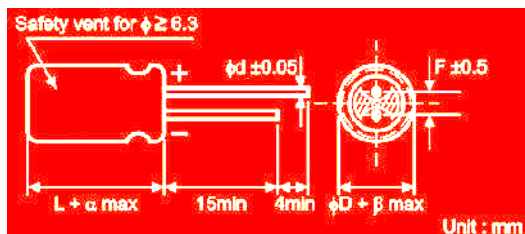
Voltage (Code)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	KM	227	M	2D	I	50	RR

Voltage (Code)		200V (2D)		220V (2N)		250V (2E)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

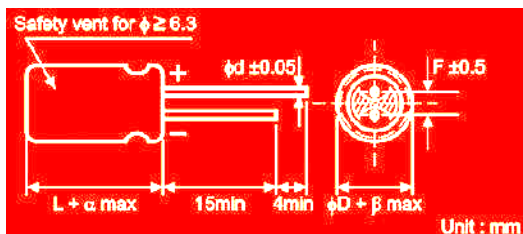
Voltage (Code)		400V (2G)		420V (2M)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C



1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	RW	157	M	2E	I	50	RR

Voltage (Code)		200V (2D)		220V (2N)		250V (2E)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

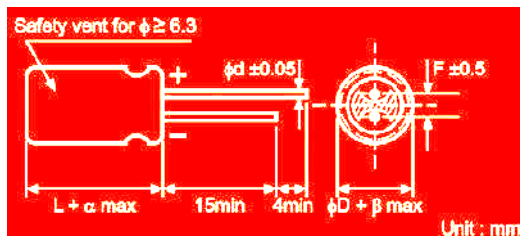
Voltage (Code)		400V (2G)		420V (2M)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
$\tan \delta$ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C

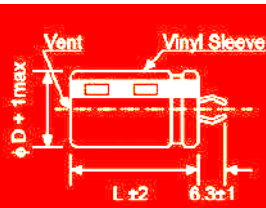


1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	RY	157	M	2E	I	50	RR

Voltage (Code)		200V (2D)		220V (2N)		250V (2E)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		400V (2G)		420V (2M)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

SW-Type



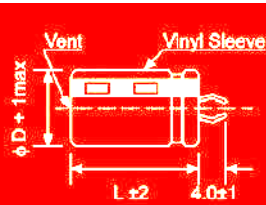
$\phi D = \phi 20 \sim \phi 40$



PC Board Mounting Holes

Unit : mm

SZ-Type



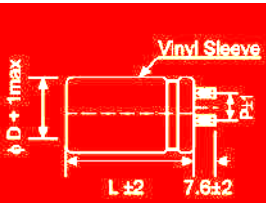
$\phi D = \phi 20 \sim \phi 40$



PC Board Mounting Holes

Unit : mm

SG-Type

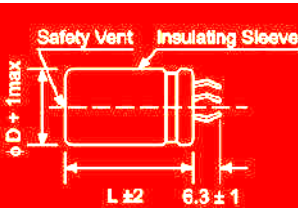


ϕD	35	40	50	63	76
P	14	14	18	25	25

PC Board Mounting Holes

Unit : mm

SX-Type



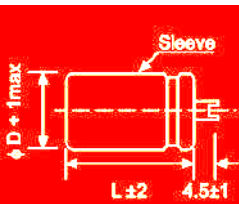
$\phi D = \phi 35 \sim \phi 50$



PC Board Mounting Holes

Unit : mm

LD-Type



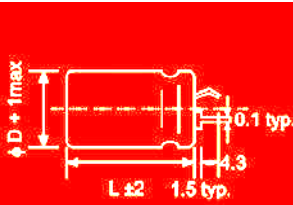
$\phi D = \phi 30 \sim \phi 40$



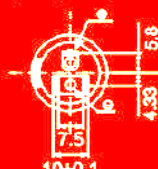
PC Board Mounting Holes

Unit : mm

ST-Type

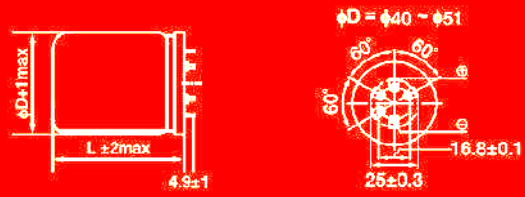


$\phi D = \phi 25 \sim \phi 35$



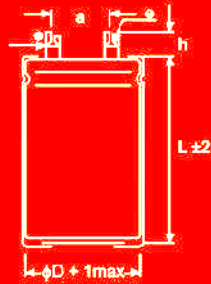
Unit : mm

FE-Type

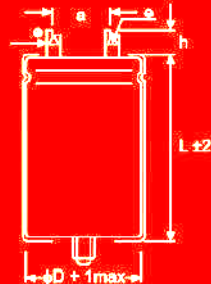


Unit:mm

VO-Type



VO-Type
成品带螺柱





Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	LP	337	M	2E	N	30	SW

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		160V (2C)		180V (2P)		200V (2D)		220V (2N)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		250V (2E)		315V (2F)		350V (2V)		385V (2Y)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		400V (2G)		420V (2M)		450V (2W)		500V (2H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		550V (25)		600V (26)		650V (F5)		700V (25)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current





Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	AP	478	M	1C	N	25	SW

Voltage (Code)		16V (1C)		25V (1E)		35V (1V)		63V (1J)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		80V (1K)		100V (2A)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)
Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	QP	108	M	2C	O	40	SW

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		160V (2C)		180V (2P)		200V (2D)		220V (2N)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		250V (2E)		315V (2F)		350V (2V)		385V (2Y)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		400V (2G)		420V (2M)		450V (2W)		500V (2H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	DP	337	M	2G	P	45	SW

Voltage (Code)		160V (2C)			200V (2D)			250V (2E)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		385V (2Y)			400V (2G)			420V (2M)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		450V (2W)								
Cap. (µF)	Code	Case Size			Impedance			Ripple Current		

Voltage (Code)		500V (2H)		550V (25)		600V (26)		650V (F5)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	TP	477	M	2D	O	30	SW

Voltage (Code)		200V (2D)		250V (2E)		400V (2G)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)
Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C
Working Voltage (V)
Z-25°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	HP	227	M	2V	O	35	SW

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		160V (2C)		180V (2P)		200V (2D)		220V (2N)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		250V (2E)		315V (2F)		350V (2V)		385V (2Y)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		400V (2G)		420V (2M)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		500V (2H)		550V (25)		600V (26)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current





Item	Performance Characteristics
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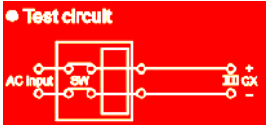
Working Voltage (V)
tan δ (max.)

Rated Voltage (V)
Z-25°C / Z+20°C

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	UP	227	M	2D	N	25	SW

Voltage (Code)		200V (2D)		250V (2E)		400V (2G)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Rated voltage	Normal Capacitance	Current Limit	Test Voltage
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Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)
Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C
Working Voltage (V)
Z-25°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	KP	107	M	2G	O	25	S W

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		160V (2C)		180V (2P)		200V (2D)		220V (2N)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		250V (2E)		315V (2F)		350V (2V)		385V (2Y)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		400V (2G)		420V (2M)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		500V (2H)		550V (25)		600V (26)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current





Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)
Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C
Working Voltage (V)
Z-25°C / Z+20°C

1	23	456	7	89	10	1112	1314
E	EP	228	M	2C	Q	45	SW

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		160V (2C)		200V (2D)		250V (2E)		315V (2F)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		350V (2V)		400V (2G)		420V (2M)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		500V (2H)		550V (25)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current





Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

Working Voltage (V)
Z-25°C / Z+20°C

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	FP	337	M	2 E	P	3 0	S W

Voltage (Code)		10V (1A)			16V (1C)			25V (1E)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		35V (1V)			50V (1H)			63V (1J)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		80V (1K)			100V (2A)			200V (2D)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

Voltage (Code)		250V (2E)			400V (2G)			450V (2W)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	SP	107	M	2G	O	30	SW

Voltage (Code)		160V (2C)		200V (2D)		250V (2E)		315V (2F)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		350V (2V)		400V (2G)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)
Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	VP	477	M	2 D	O	3 0	S W

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		160V (2C)		180V (2P)		220V (2D)		220V (2N)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		250V (2E)		315V (2F)		350V (2V)		385V (2Y)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Voltage (Code)		400V (2G)		420V (2M)		450V (2W)		500V (2H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

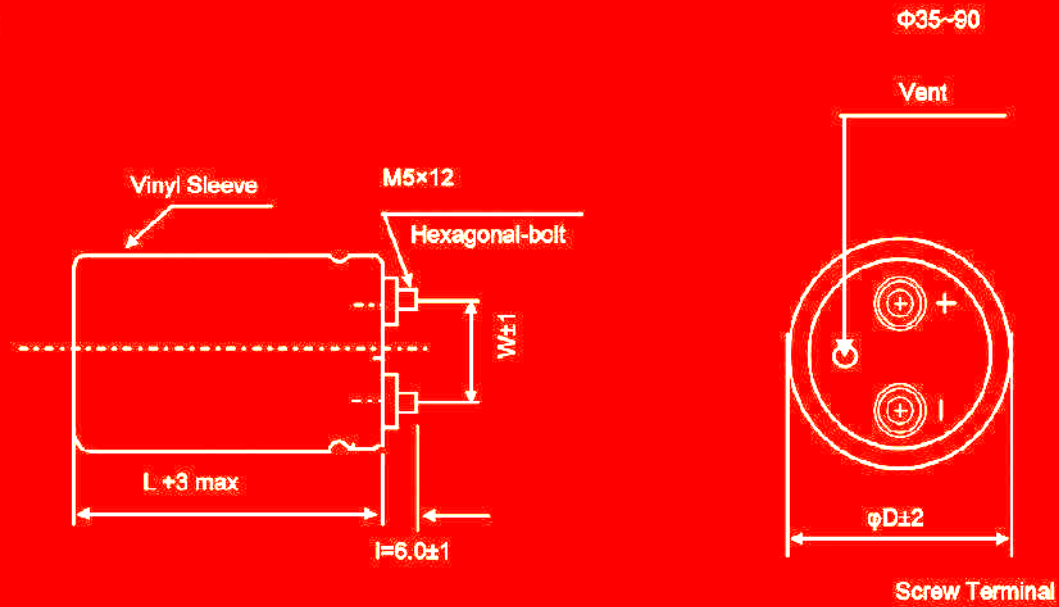
1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	GP	567	M	2 E	O	3 5	S W

Voltage (Code)		160V (2C)		180V (2P)		200V (2D)		220V (2N)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		250V (2E)		400V (2G)		420V (2M)		450V (2W)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

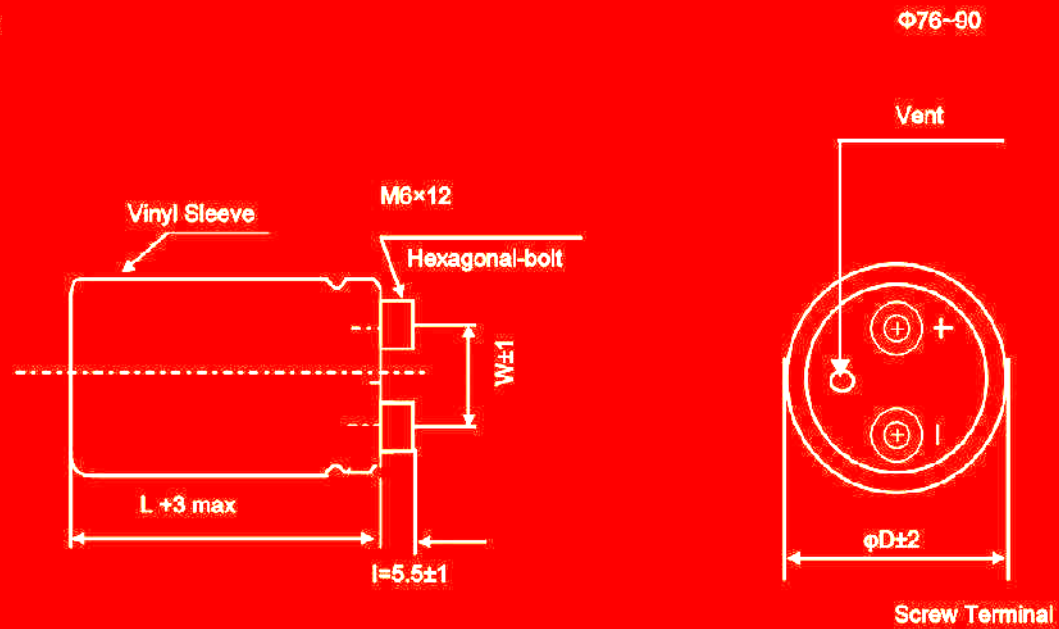


O-Type



Unit : mm

D-Type



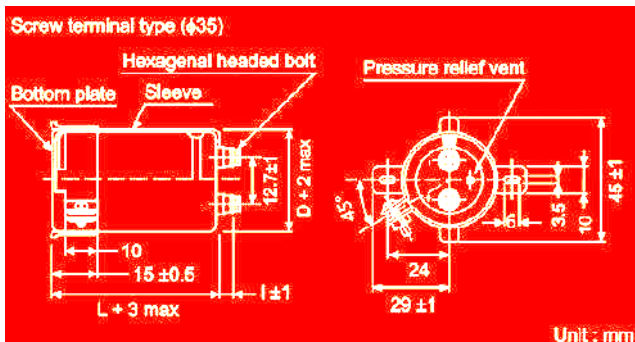
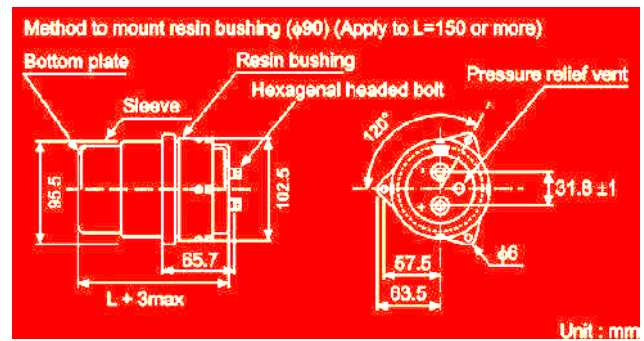
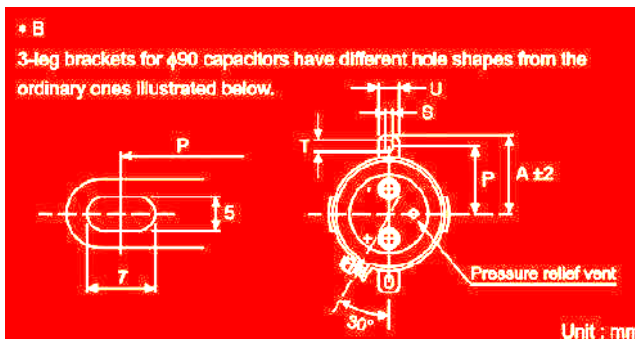
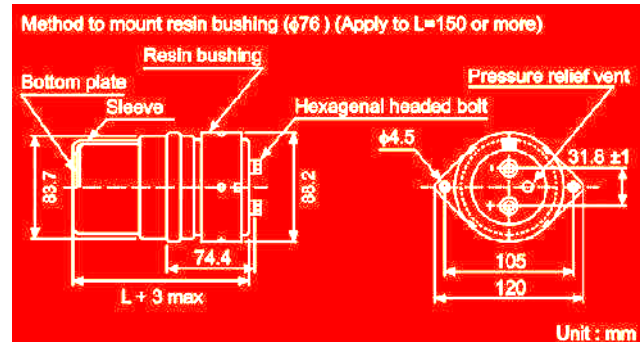
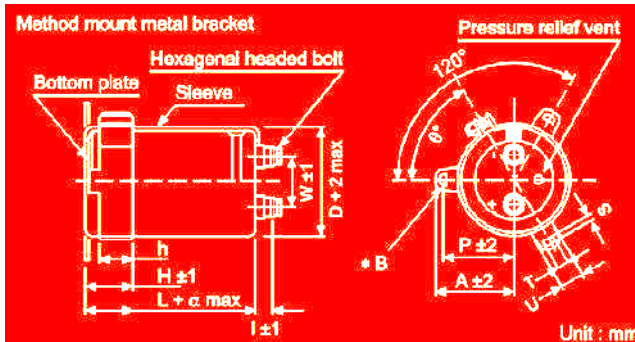
Unit : mm



Item	Performance Characteristics
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Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	WR	688	M	2C	S	1L	OO



Voltage (Code)		3 - Leg				2 - Leg				
Symbol	ΦD	51	63.5	76	90	35	51	63.5	76	90

Voltage (Code)		10V (1A)			16V (1C)			25V (1E)		
SV		13			20			32		
Cap. (µF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		35V (1V)			50V (1H)			63V (1J)		
SV		44			63			79		
Cap. (µF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		80V (1K)			100V (2A)			160V (2C)		
SV		100			125			200		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		200V (2D)			250V (2E)			350V (2V)		
SV		250			300			400		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		400V (2G)			450V (2W)			500V (2H)		
SV		450			500			550		
Cap. (µF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

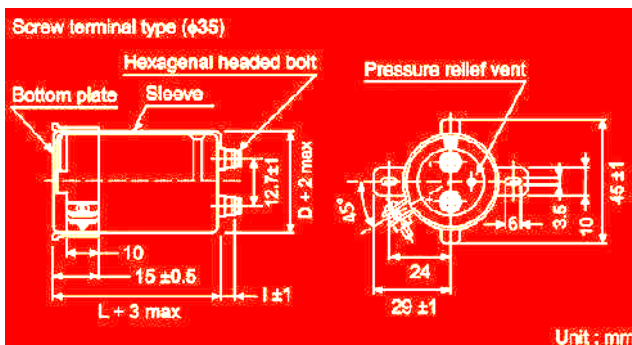
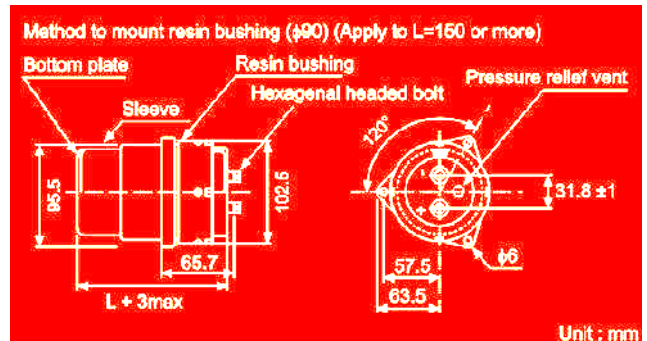
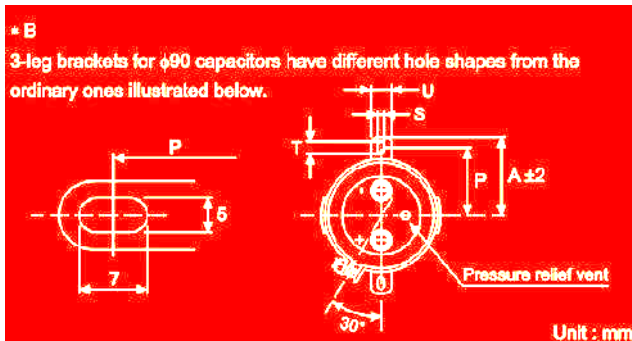
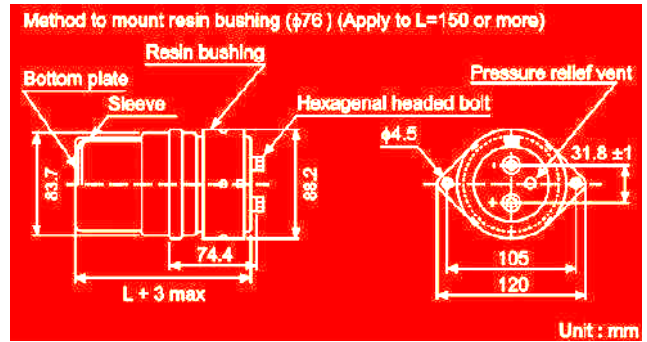
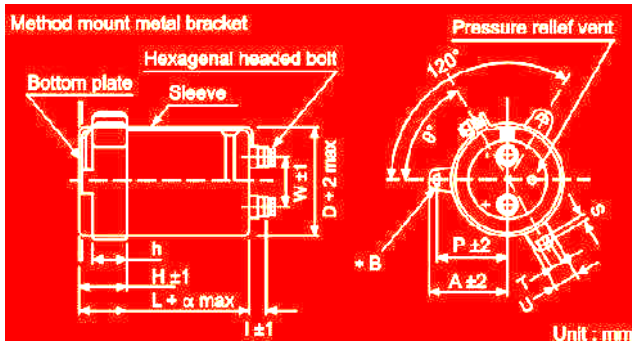
Voltage (Code)		550V (25)			600V (26)			630V (2J)		
SV		600			650			680		
Cap. (µF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
Z-25°C / Z+20°C

1	2 3	4 5 6	7	8 9	10	11 12	13 14
E	WI	228	M	2V	S	95	O5



Voltage (Code)		3-Leg				2-Leg				
Symbol	ΦD	51	63.5	76	90	35	51	63.5	76	90

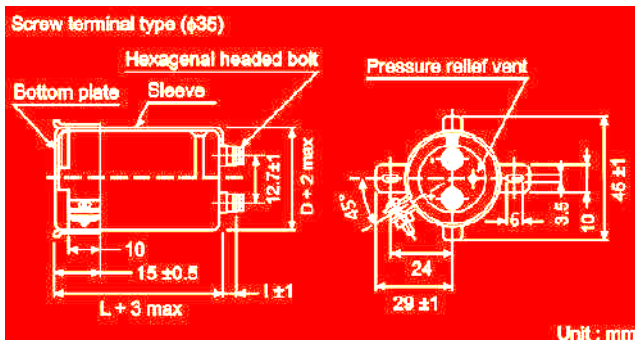
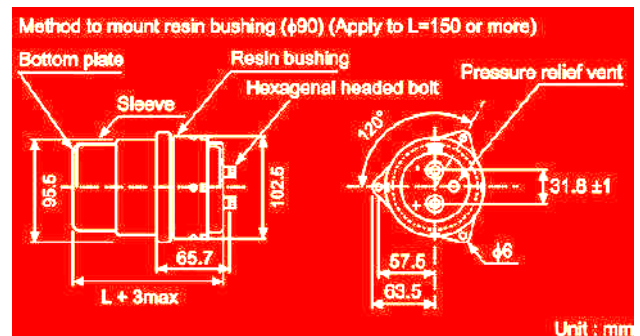
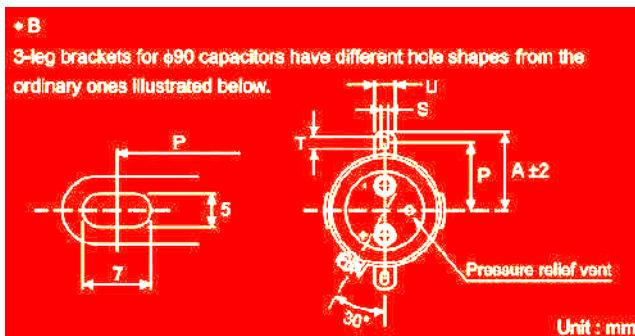
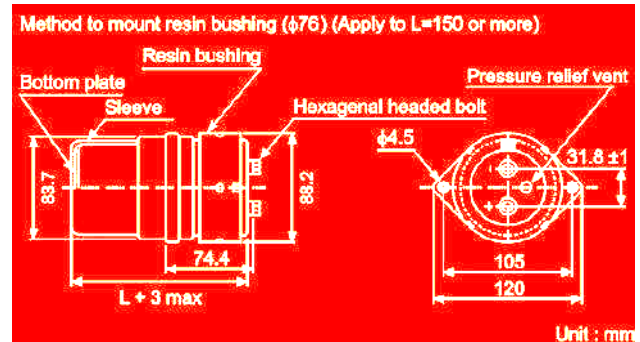
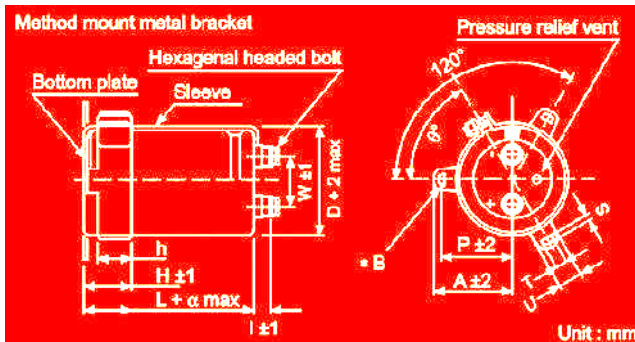
Voltage (Code)		350V (2V)		400V (2G)		450V (2W)	
SV		400		450		500	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	WT	278	M	2V	T	1L	OO



Voltage (Code)		3 - Leg				2 - Leg				
Symbol	ΦD	51	63.5	76	90	35	51	63.5	76	90

Voltage (Code)		10V (1A)			16V (1C)			25V (1E)		
SV		13			20			32		
Cap. (µF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		35V (1V)			50V (1H)			63V (1J)		
SV		44			63			79		
Cap. (µF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		80V (1K)			100V (2A)			160V (2C)		
SV		100			125			200		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		200V (2D)			250V (2E)			315V (2F)		
SV		250			300			365		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		350V (2V)			400V (2G)			450V (2W)		
SV		400			450			500		
Cap. (µF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		500V (2H)		
SV		550		
Cap. (µF)	Code	Case Size	tan δ	Ripple Current



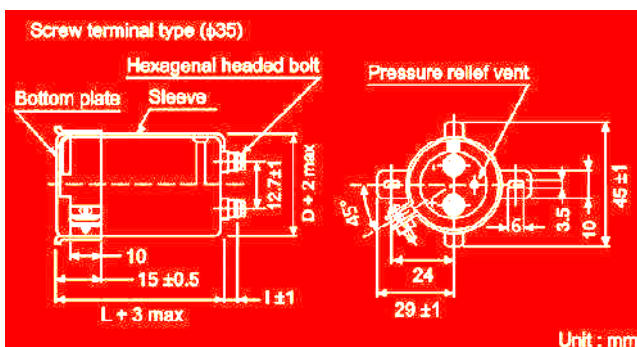
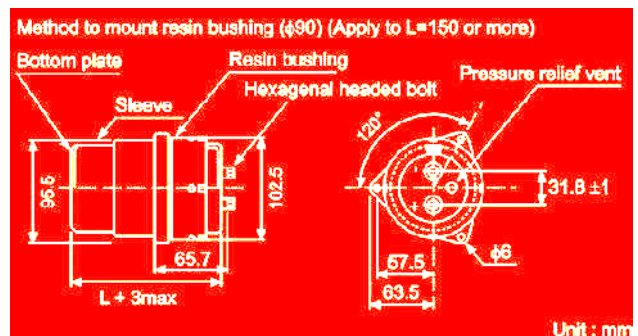
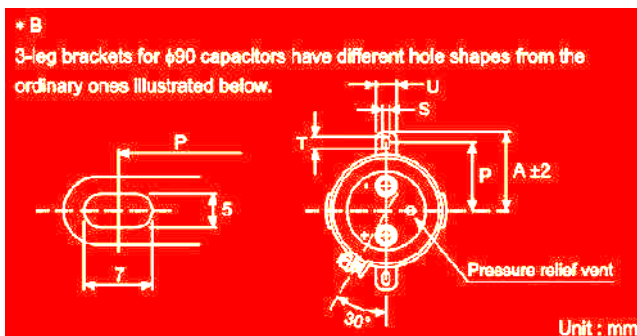
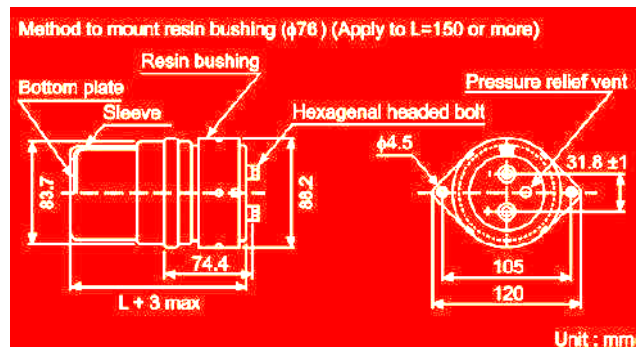
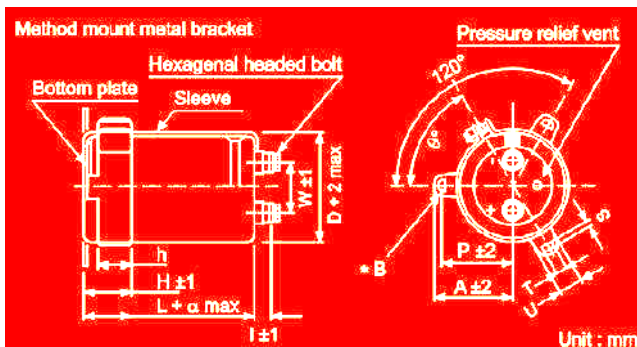
Item	Performance Characteristics
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ΦD	L	V	10	16	25	35	50	63	80	100
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ΦD	L	V	160~250	350~450
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Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	WX	228	M	2G	S	1M	OO



Voltage (Code)		3 - Leg					2 - Leg				
Symbol	ΦD	51	63.5	76	90	35	51	63.5	76	90	

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
SV		13		20		32		44	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
SV		63		79		100		125	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

Voltage (Code)		160V (2C)		200V (2D)		250V (2E)		350V (2V)	
SV		200		250		300		400	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

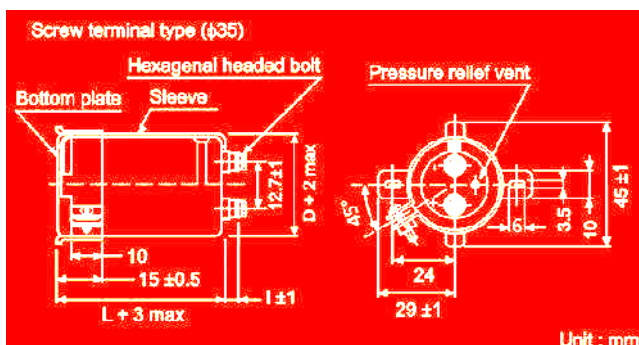
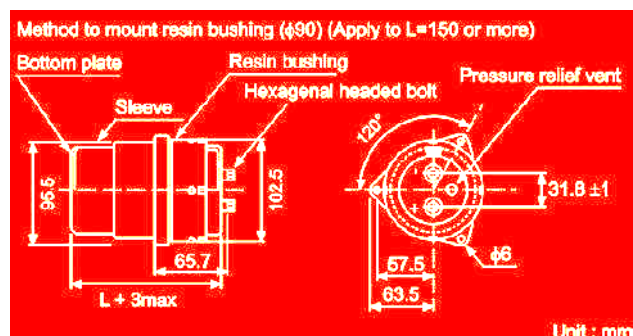
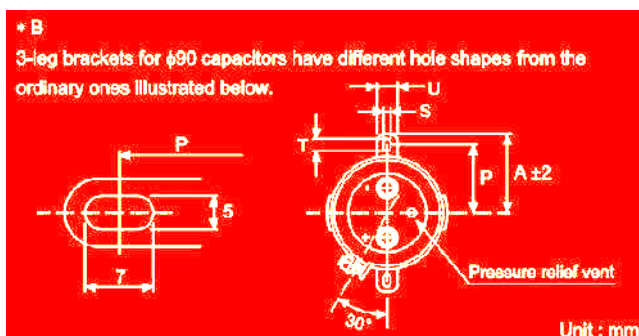
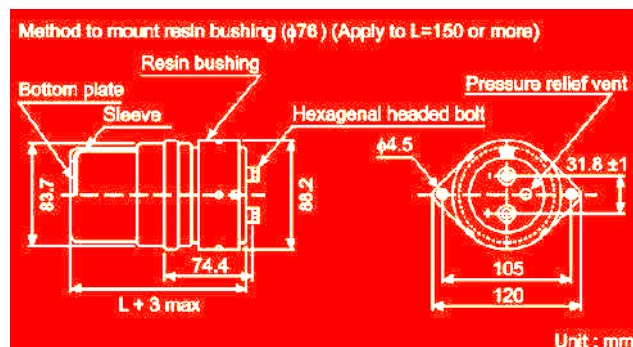
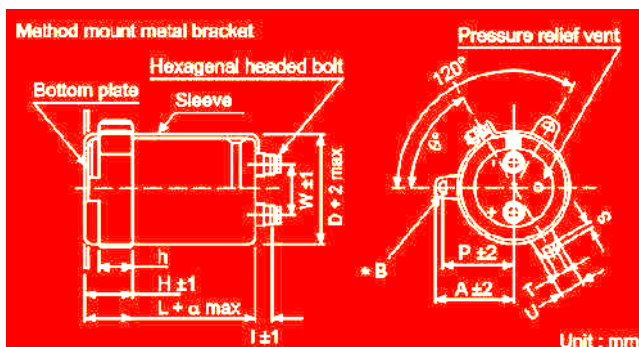
Voltage (Code)		400V (2G)		450V (2W)		500V (2H)		550V (2S)	
5V		450		500		550		600	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	WF	688	M	2V	U	1P	OO



Voltage (Code)		3 - Leg					2 - Leg				
Symbol	ΦD	51	63.5	76	90	35	51	63.5	76	90	

Voltage (Code)		10V (1A)			16V (1C)			25V (1E)		
SV		13			20			32		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		35V (1V)			50V (1H)			63V (1J)		
SV		44			63			79		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		80V (1K)			100V (2A)			160V (2C)		
SV		100			125			200		
Cap. (µF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		200V (2G)			250V (2W)			350V (2H)		
SV		250			300			400		
Cap. (µF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		400 (2G)			450V (2W)			500V (2H)		
SV		450			500			550		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

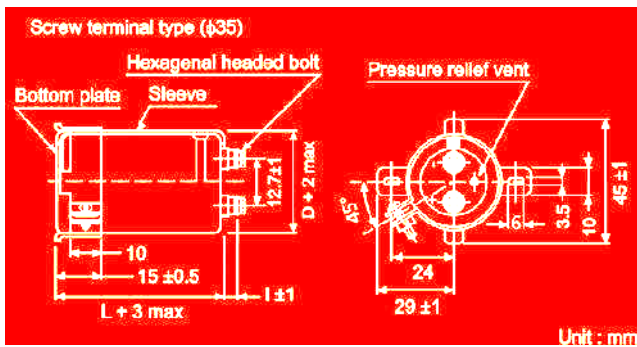
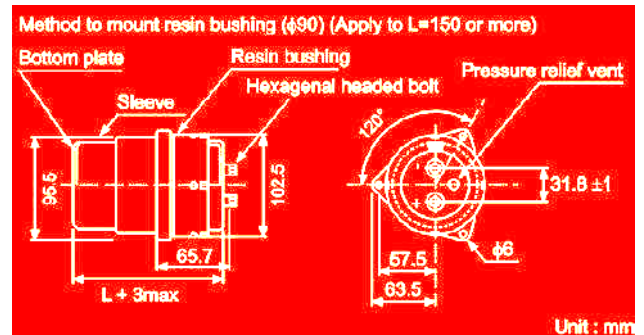
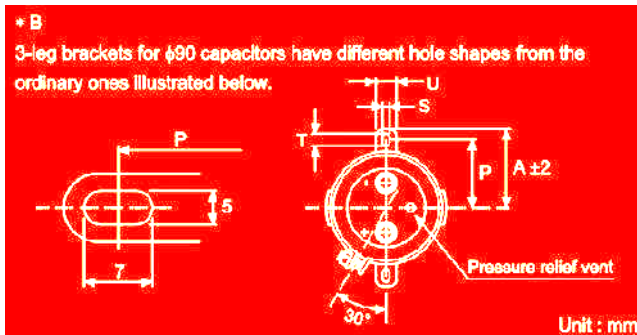
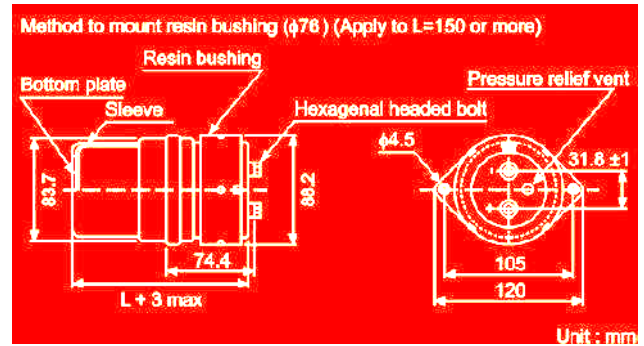
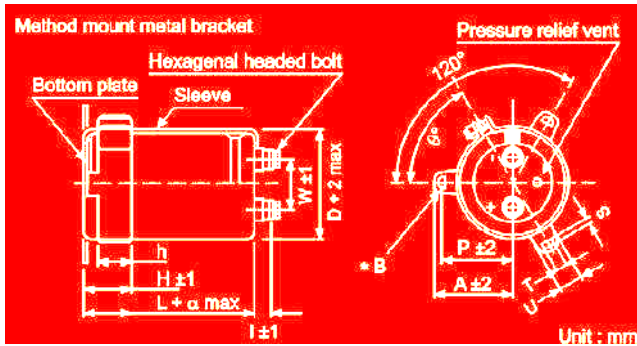


Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	WH	338	M	2G	U	90	OO



Voltage (Code)		3 - Leg				2 - Leg			
Symbol	ΦD	51	63.5	76	90	51	63.5	76	90

Voltage (Code)		350V (2V)		400V (2G)		450V (2W)		500V (2H)	
SV		400		450		500		550	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

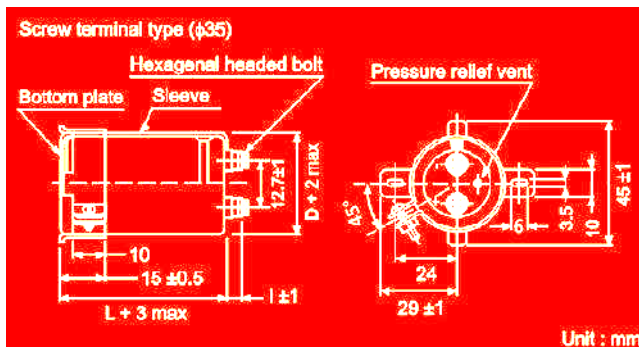
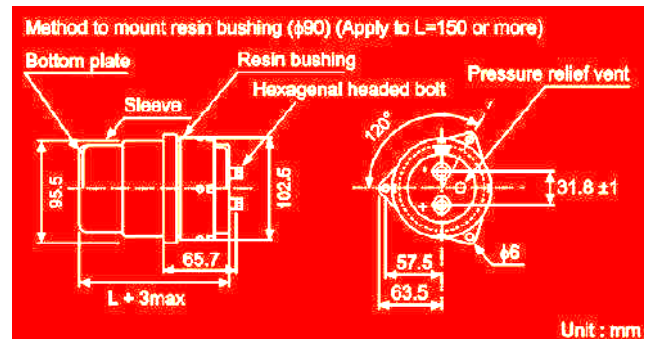
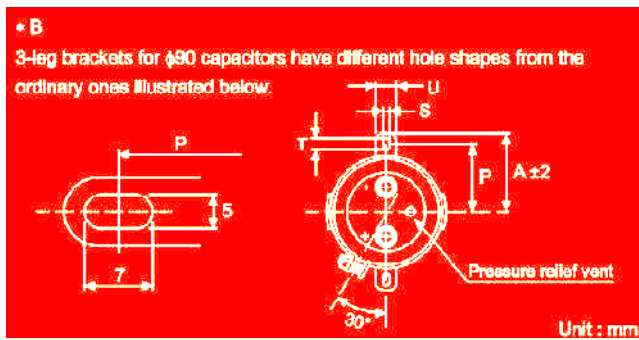
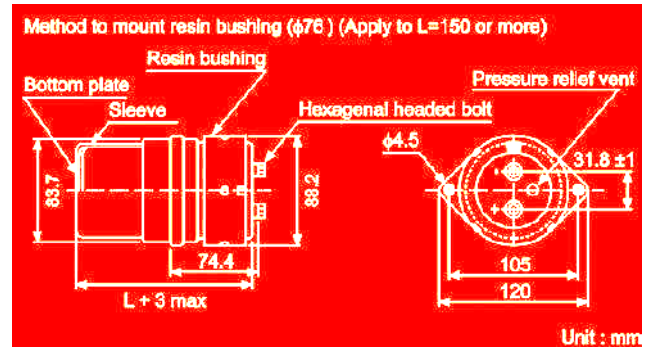
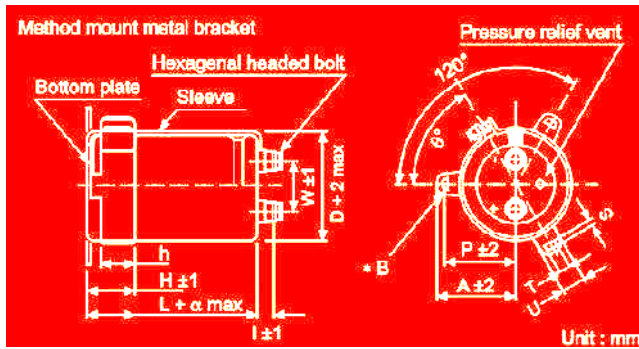


Item	Performance Characteristics
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Working Voltage (V)
tan δ (max.)

Working Voltage (V)
Z-25°C / Z+20°C

1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	WL	478	M	2V	U	1N	OO



Voltage (Code)		3 - Leg			2 - Leg		
Symbol	ΦD	63.5	76	90	63.5	76	90

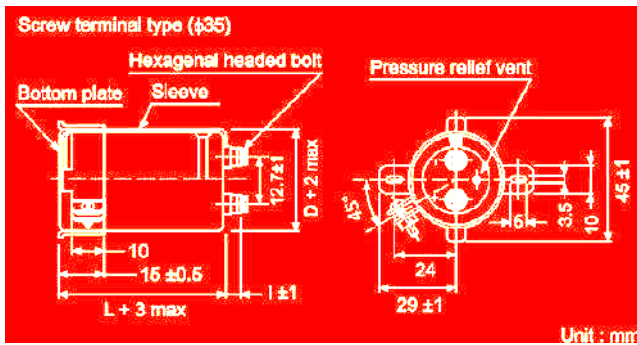
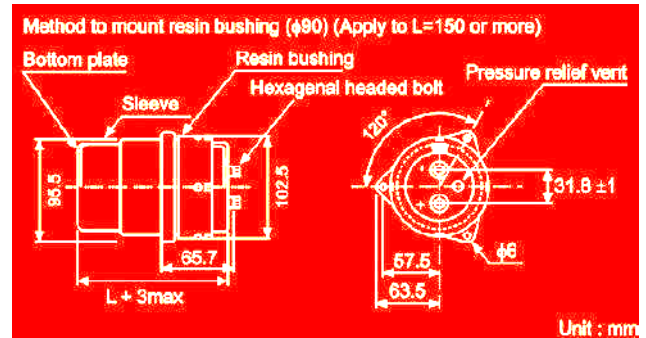
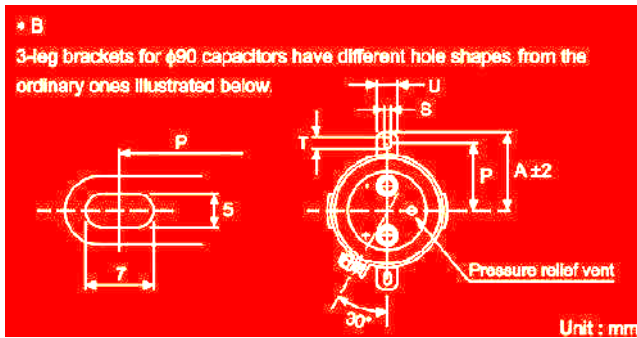
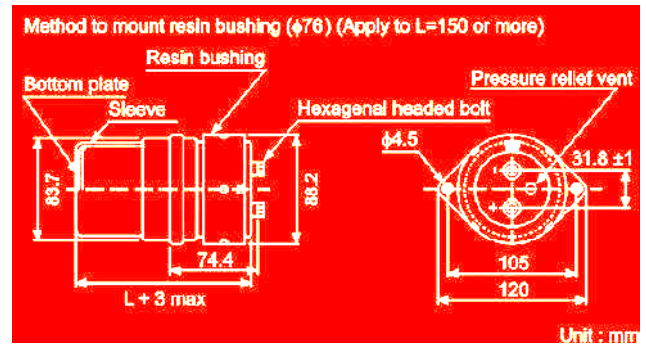
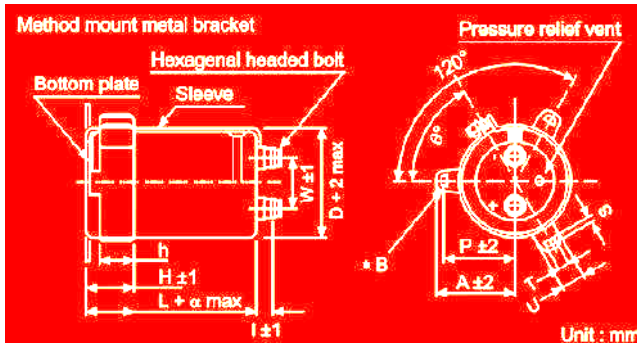
Voltage (Code)		350V (2V)		400V (2G)		450V (2W)	
SV		400		450		500	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
Z-25°C / Z+20°C

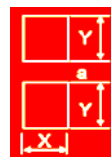
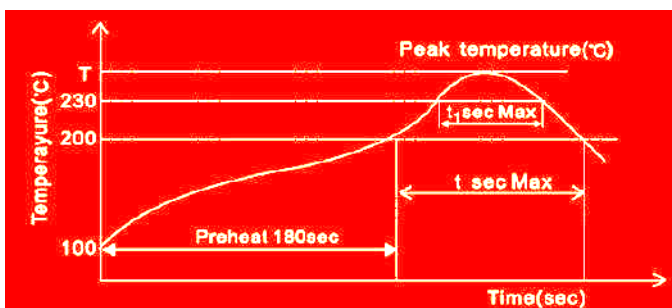
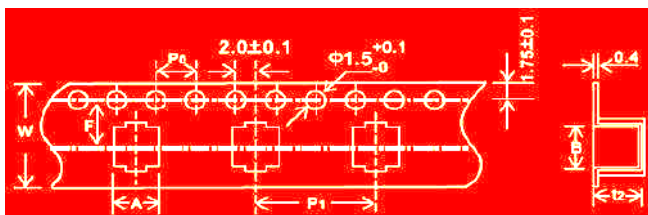
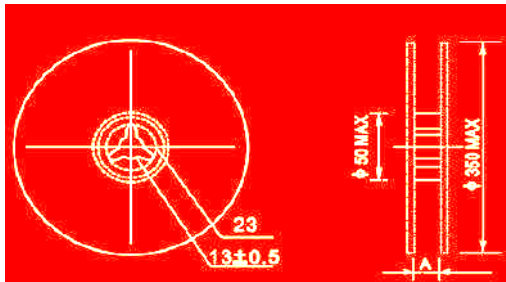
1	2,3	4,5,6	7	8,9	10	11,12	13,14
E	WB	108	M	2D	Q	80	OO



Voltage (Code)		3 - Leg				2 - Leg				
Symbol	ΦD	51	63.5	76	90	35	51	63.5	76	90

Voltage (Code)		160V (2C)			200V (2D)			250V (2E)		
SV		200			250			300		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

Voltage (Code)		350V (2V)			400V (2G)		
SV		400			450		
Cap. (μF)	Code	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current

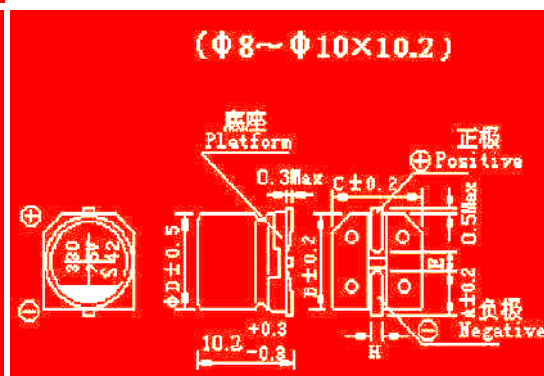
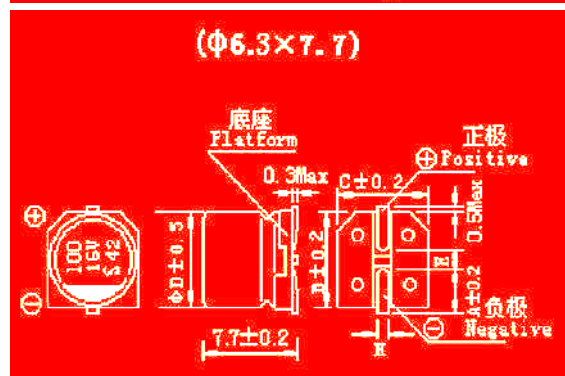
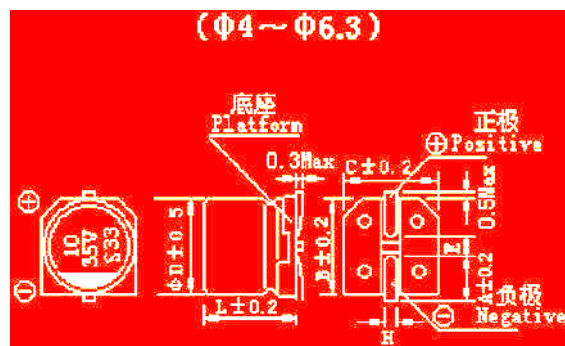




Item	Performance Characteristics
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Working Voltage (V)
tanδ (max.) $\Phi 4 \sim 6.3$
 $\Phi 8 \sim 10$

Working Voltage (V)
Z-40°C / Z+20°C



1	2 3	4 5 6	7	8 9	10	11 12	13 14
V	S1	477	M	1C	F	T2	TR

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

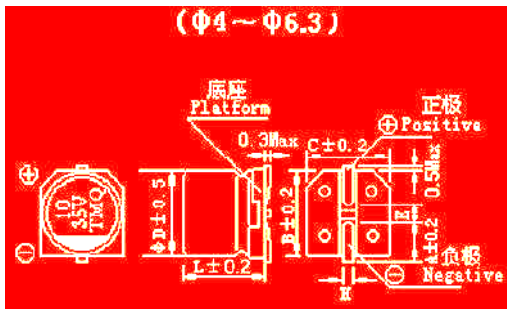
Voltage (Code)		35V (1V)		50V (1H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
 $\tan \delta$

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



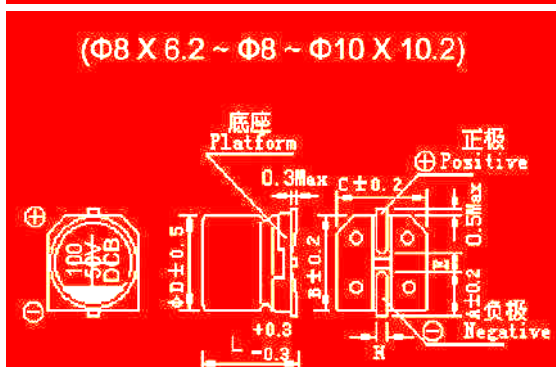
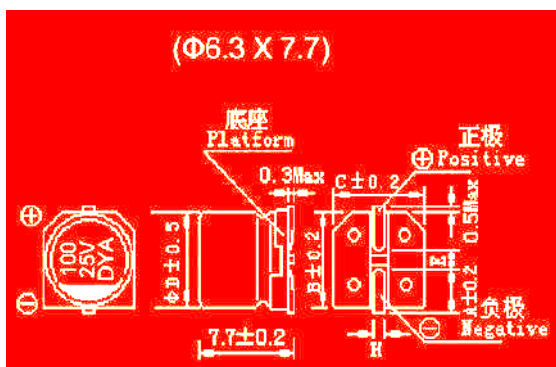
1	2 3	4 5 6	7	8 9	10	11 12	13 14
V	T1	107	M	1C	E	54	TR

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

Voltage (Code)		35V (1V)		50V (1H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current



Item	Performance Characteristics
	Working Voltage (V) tanδ (max.)
	Working Voltage (V) Z-25°C / Z+20°C Z-40°C / Z+20°C



1	2 3	4 5 6	7	8 9	10	11 12	13 14
V	TD	477	M	1E	G	T2	TR

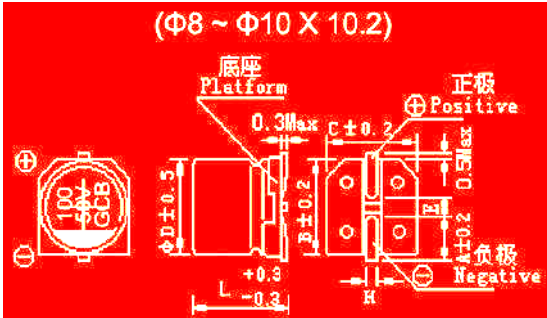
Voltage (Code)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current

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



Item	Performance Characteristics
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Working Voltage (V)
$\tan\delta$
Working Voltage (V)
Z-25°C / Z+20°C



1	23	456	7	89	10	1112	1314
V	TG	225	M	2G	F	T2	TR

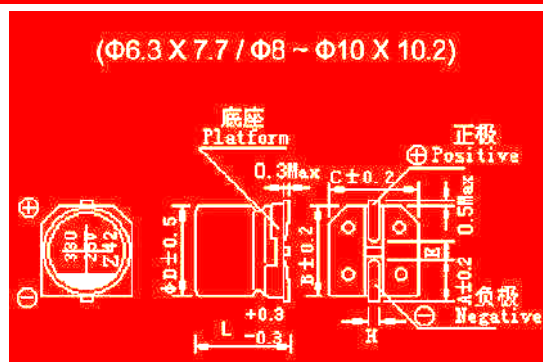
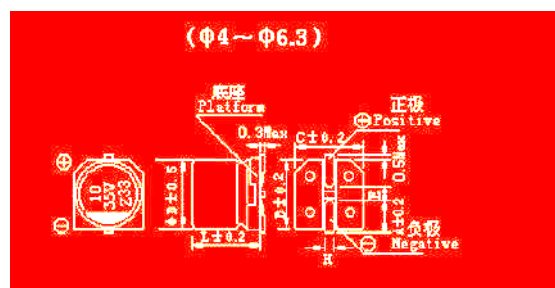
Voltage (Code)		400V (2G)	
Cap. (μF)	Code	Case Size	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
tanδ (max.)

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C
Z-55°C / Z+20°C



1	2 3	4 5 6	7	8 9	10	11 12	13 14
V	Z2	477	M	1E	G	T2	TR

Voltage (Code)		6.3V (0J)			10V (1A)			16V (1C)			25V (1B)			35V (1V)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current

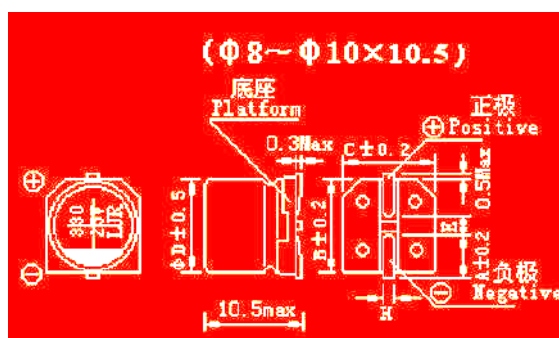
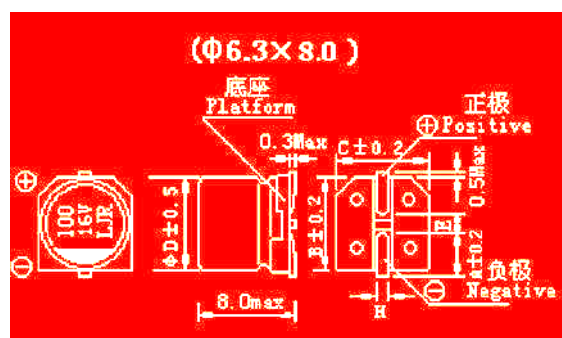
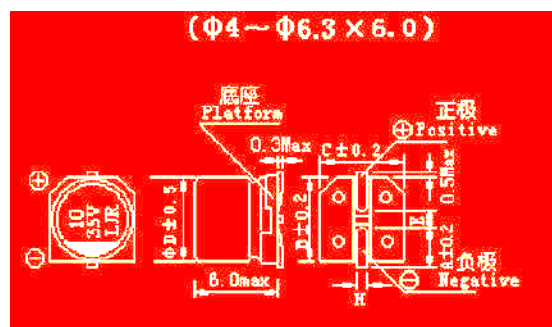
Voltage (Code)		50V (1H)			63V (1J)			80V(1K)			100V (2A)		
Cap. (µF)	Code	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current



Item	Performance Characteristics
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Working Voltage (V)
 $\tan\delta$

Working Voltage (V)
Z-25°C / Z+20°C
Z-40°C / Z+20°C



1	23	456	7	89	10	11 12	13 14
V	TL	477	M	1E	G	1K	TR

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

Voltage (Code)		35V (1V)		50V (1H)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current

