

FEATURES

- Load life of 20,000 hours application of ripple current at 85°C.
- High ripple, high reliability.
- Best for use in industrial power supplies for inverter circuitry.



SPECIFICATIONS

Item	Performance Characteristics	
Operating Temperature Range	-25 to +85°C	
Rated Working Voltage Range	350 to 450V	
Nominal Capacitance Range	2200 to 12000µF	
Capacitance Tolerance	±20% at 120Hz, +20°C	
Leakage Current	I ≤ 0.02CV (µA) or 5 (mA) whichever is smaller measured after 5 minutes application of rated working voltage at +20°C	
tan δ (120Hz, +20°C)	Working Voltage (V)	350~450
	tan δ (max.)	0.25
Low Temperature Characteristics	Impedance ratio max. at 120Hz	
	Working Voltage (V) Z-25°C / Z+20°C	350~450 8
High Temperature Loading	Test time : 20,000 hours Test temperature : +85°C Test conditions : Rated DC working voltage with rated ripple current	Post test requirements at +20°C Leakage current : ≤ Initial specified value Cap. change : within ±30% of the initial measured value tan δ : ≤ 300% of the initial specified value
	Shelf Life	At +85°C no voltage applied after 1,000 hours and then being stabilized at +20°C the capacitors shall meet the following limits Leakage current : ≤ Initial specified value Cap. change : within ±20% of the initial measured value tan δ : ≤ 200% of the initial specified value
Industrial Standard	JIS C - 5101-4 (IEC 60384-4)	

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient

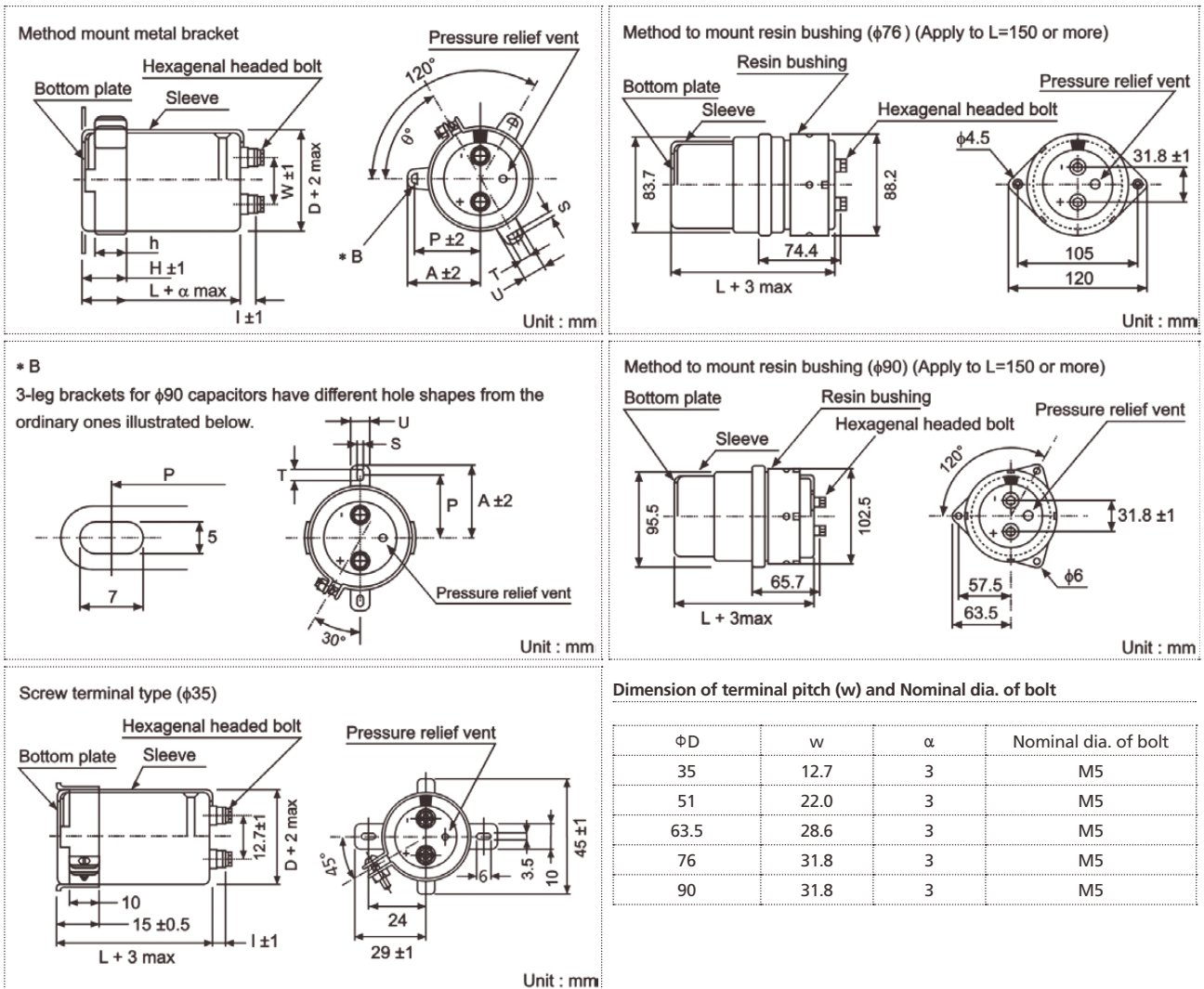
Coefficient	50	120	300	1k	10k~
Rated Voltage < 160V	0.80	1.00	1.08	1.15	1.15
Rated Voltage ≥ 160V	0.80	1.00	1.08	1.15	1.20

PART NUMBER SYSTEM (EXAMPLE : 350V 4700µF)

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

Type (Terminal Code)
 Case Length (120mm)
 Diameter (76.2mm)
 Voltage (350V)
 Tolerance (±20%)
 Capacitance (4700µF)
 Series
 E-CAP

CASE SIZE TABLE



Dimensions of mounting bracket

Voltage (Code)		3 - Leg			2 - Leg		
Symbol	φD	63.5	76	90	63.5	76	90
P		38.1	44.5	50.8	40.5	46.5	53
A		43	49.2	58.5	46.5	53	59
T		8.0	7.0	8.0	7.0	6.0	6.0
S		5.0	5.0	5.0	4.5	4.5	4.5
U		14	14	18	14	14	14
θ°		60	60	60	30	30	30
H		25	30	35	35	35	35
h		20	24	25	20	20	20

STANDARD RATINGS

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
2200	228					63.5 x 120	9.1
2700	278			63.5 x 120	10.1	63.5 x 130	10.6
						76 x 120	11.2
3300	338	63.5 x 120	11.1	63.5 x 130	11.7	63.5 x 160	12.7
						76 x 130	13.0
3900	398	63.5 x 130	12.8	63.5 x 160	13.8	63.5 x 170	14.4
				76 x 120	14.7		
4700	478	63.5 x 160	15.2	63.5 x 170	15.8	76 x 160	16.7
		76 x 120	14.7	76 x 130	15.5		
5600	568	63.5 x 170	17.3	63.5 x 190	18.2	76 x 190	20.1
		76 x 130	16.9	76 x 160	18.3	90 x 160	19.9
6800	688	63.5 x 190	20.0	76 x 170	21.0	90 x 170	23.0
		76 x 160	20.2				
8200	828	76 x 170	23.1	90 x 160	24.1	90 x 190	26.4
10000	109	90 x 160	26.6	90 x 190	29.1	90 x 190	29.1
12000	129	90 x 190	32.0				

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

Case Size Φ D x L (mm)