

ST-03 SERIES

ST-03系列

- Wide operating temperature range of - 25 ~ + 105°C
- Standard series for general-purpose
- Voltage range of 160 ~ 450V
- Load life of 3000 hours at 105°C

- 工作温度范围: - 25 ~ + 105°C
- 通用型号的标准品
- 工作电压: 160V-450V
- 使用寿命: 105°C 3000小时



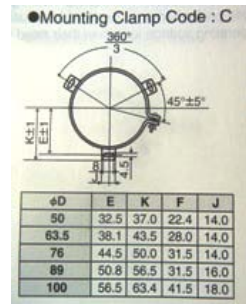
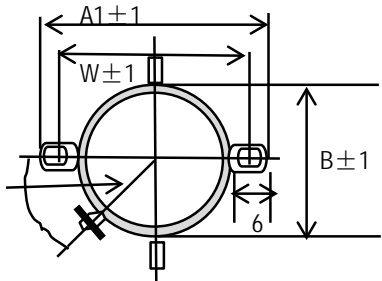
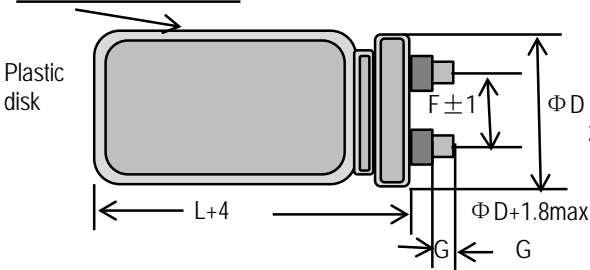
■ SPECIFICATIONS

技术参数

Item (项目)	Characteristics (特征)
Operating Temperature Range (使用温度范围)	- 25 ~ +105°C
Voltage Range (额定电压)	160 ~450 V.DC
Nominal Cap. Range (容量范围)	1000 ~ 27000 μF
Capacitance Tolerance (温度频率范围)	- 20% ~ + 20% (at 20°C, 120Hz)
Leakage Current (漏电流)	WV: 160 ~450 V.DC
	L.C. I=0.01CV or 3(μA) whichever is greater(after 2min) 施加额定电压2分钟测试
	I=0.03CV or 4(μA) whichever is greater(after 1min) 施加额定电压1分钟测试
I=0.02CV+15(μA)(after 5 min.) (施加额定电压5分钟测试)	
where, I: Max Leakage Current(μA), C: Nominal Capacitance(μF), V: Rated Voltage(V) (at 20°C)	
注解: I:漏电流uA C:容量(μF), V: 额定电压(V) (在 20°C)	
Dissipation Factor (tanδ) (at 120Hz, +20°C) 损失角正切值	W.V. 160-250 350-450
	tanδ 0.20 0.15
Add 0.02 per 1,000 μF for more than 1,000μF items. 容量超过1000 μ F; 每超过1000 μ F, 损失角增加0.02	
Low Temp. Impedance Stability at 120Hz (温度特性)	W. V. 160-250 350-450
	Z-25°C/Z+20°C 3 8
	Z-40°C/Z+20°C 4 -
High Temp. Load Test (高温负荷特性)	After 3000 hours, application of DC rated working voltage at + 105°C, the capacitor shall meet the following limits. 105°C施加额定电压3000小时后满足下列条件
	Capacitance change ... ≤ ±20% of the initial measured value 容量在±20%范围内
	Tan δ ... ≤ 200% of the initial specified value 损失角在初始规定值200%
DC leakage current ... ≤ the initial specified value 漏电流小于或等于规格值	
High Temp. Non-Load Test (高温无负荷特性)	After storage for 1000 hours at 105°C with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High Temperature Loading" can be met.
	在105°C的条件下不加电压放置1000个小时, 按照JIS-C-5102中4-4的标准进行处理, 特性满足高温负荷特性

■ DIMENSIONS (Screw-Mount) <mm>

Sleeve (pb-free pvc:Black)



● Mounting Clamp Code: B

ΦD	A	B	W	F
50	78	64	68	22.4
63	90	76	80	28.0
76	104.5	90	93.5	31.5

ΦD	E	K	F	J
50	33	37	22	14
63	38	44	28	14
76	45	50	32	14
89	51	57	32	16
100	57	63	42	16

- Φ50&Φ63: G=6
- Φ76&Φ89: G=5
- Φ100: G=10

★The screw and the mounting clamp are separately supplied and not attached to the product 螺丝和固定夹是分别提供的, 不是放在产品上

▼ MULTIPLIER FOR RIPPLE CURRENT 纹波电流修正系数

Cap(μF)	Freq.(HZ) 频率系数				
	60(50)	120	300	1K	10K
1000-2200	0.55	1.00	1.20	1.30	1.50
3300-27000	0.65	1.00	1.15	1.20	1.30

Ambient Temperature(°C)	(2) Temperature coefficient 温度系数				
	40	60	70	85	105
Coefficient	1.8	2	2.2	2.4	1

SHELCON

(Standard screw terminals 105°C)

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■STANDARD SIZE 标准品一览表

WV (VDC)	Cap(μ F)/120Hz	Case size	Ripple(Arms 105°C120Hz)	WV (VDC)	Cap(μ F)/120Hz	Case size	Ripple(mArms 105°C120Hz)
额定电压	静电容量	尺寸DxL	纹波电流	额定电压	静电容量	尺寸DxL	纹波电流
160	3900	50*80	3.80	350	1200	50*80	2.40
	4700	50*100	4.60		1500	50*100	3.00
	5600	50*100	5.10		1800	50*120	3.60
	6800	50*120	6.10		2200	50*120	4.00
	8200	63*100	7.00		2700	63*100	4.60
	10000	63*120	8.40		3900	76*120	6.70
	12,000	76*100	9.40		5600	76*130	8.30
	15,000	76*120	11.40		6800	76*140	9.50
	18,000	76*140	13.40		8200	89*140	11.40
	22,000	89*140	14.50				
	27,000	89*140	16.00				
	200	3300	50*80		4.10	400	1000
3900		50*100	4.90	1200	50*100		2.70
4700		63*100	5.30	1500	50*120		3.30
5600		63*100	5.80	1800	63*90		3.80
6800		63*120	6.90	2200	50*100		4.20
8200		63*120	7.60	2200	63*90		4.20
10000		76*120	9.30	2200	63*100		4.20
12,000		76*120	10.20	3300	65*110		5.50
15,000		76*140	12.20	3300	63*120		5.50
18,000		89*140	13.10	4700	77*100		7.60
				4700	76*130		7.60
				4700	77*130		7.60
250	2200	50*80	2.90	450	5600	89*140	9.40
	2700	50*100	3.50		6800	77*155	10.40
	3300	50*120	4.20		6800	89*140	10.40
	3900	50*120	4.60				
	4700	63*90	5.7				
	4700	63*120	5.70				
	5600	63*120	6.30				
	6800	76*120	7.70				
	8200	76*120	8.40				
	10,000	76*140	10.00				
	12000	76*100	10.0				
	12,000	89*140	11.90				
300	1500	50*80	2.70				
	1800	50*100	3.30				
	2200	50*120	4.00				
	2700	50*120	4.40				
	3300	63*100	5.10				
	3900	63*120	6.00				
	4700	76*100	6.80				
	5600	76*120	8.00				
	6800	76*130	9.20				
	8,200	89*140	11.40				
	10,000	89*140	12.60				