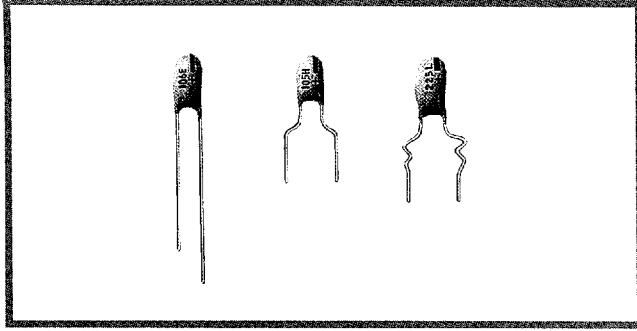
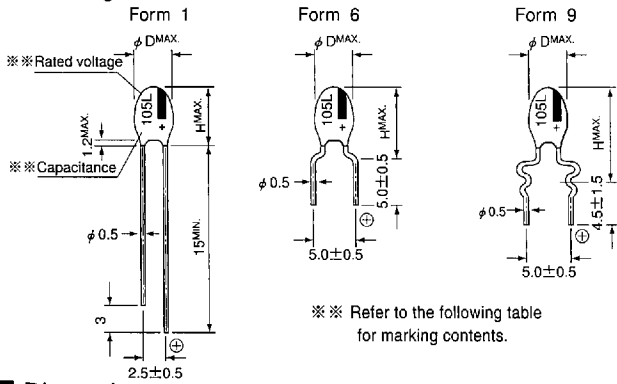


S89 Resin-coated, Standard Series



Drawing



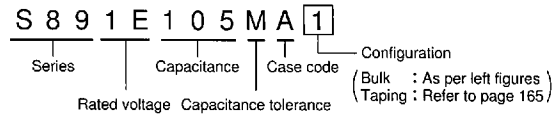
Dimensions

Case code	D	H (mm)		
		Form 1	Form 6	Form 9
A	3.5	6.0	9.3	10.0
B	3.8	6.5	9.8	10.5
C	4.4	7.5	10.5	11.5
D	4.8	8.5	11.5	12.5
E	5.2	9.5	12.5	13.5

Standard ratings

Cap. (μF)	V	V						Capacitance Code
		4	6.3	10	16	25	35	
0.1	104						A	104
0.15	154						A	154
0.22	224						A	224
0.33	334						A	334
0.47	474						A	474
0.68	684					A	B	684
1	105					A	B	105
1.5	155				A	B	C	155
2.2	225				A	B	C	225
3.3	335			A	B	C	D	335
4.7	475		A	A	B	C	D	475
6.8	685		A	B	C	D	E	685
10	106	A	B	B	C	D	E	106
15	156	B	B	C	D	E		156
22	226	B	C	C	D			226
33	336	C	C	D	E			336
47	476	C	D	D				476
68	686	D	D	E				686
100	107	D	E					107
150	157	E						157
***Rated voltage code		C	D	E	F	H	L	

Type numbering system (Example : 25V 1 μ F)



Specifications

Item	Performance Characteristics
Operating Temperature Range	-55~+85°C
Capacitance Tolerance	±20%, ±10% (at 120Hz)
Dissipation Factor	0.1~1 μ F 4%Max. 1.5~6.8 μ F 6%Max. 10~68 μ F 8%Max. 100 μ F~ 10%Max. (at 120Hz)
Leakage Current	•After 1 minute's application of rated voltage, leakage current at 25°C is not more than 0.01CV or 0.5 μ A, whichever is greater. •After 1 minute's application of rated voltage, leakage current at 85°C is not more than 0.1CV or 5 μ A, whichever is greater.
Capacitance Change by Temperature	+12%Max. (at +85°C) -12%Max. (at -55°C)
Surge Voltage *	After application of surge voltage in series with a 33 Ω resistor at the rate of 30 seconds ON, 30 seconds OFF, for 1000 successive test cycles at 85°C, capacitors meet the characteristics requirements listed below. Capacitance Change Within ±5% of initial value Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less
Resistance to Soldering Heat	After immersing the bottom parts of capacitor bodies by 2~2.5mm in a solder pot at 270±5°C for 3±0.5 seconds, Capacitance Change Within ±3% of initial value Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less
Humidity Resistance	At 40°C, 90~95% R.H., For 500 hours (No voltage applied) Capacitance Change Within ±12% of initial value Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less
Load Life	After 1000 hours' application of rated voltage in series with a 3 Ω resistor at 85°C, capacitors meet the characteristics requirements listed below. Capacitance Change Within ±10% of initial value Dissipation Factor Initial specified value or less Leakage Current Initial specified value or less
Applicable Standard	JIS C 5142

*As for the surge voltage, refer to page 163 for details.