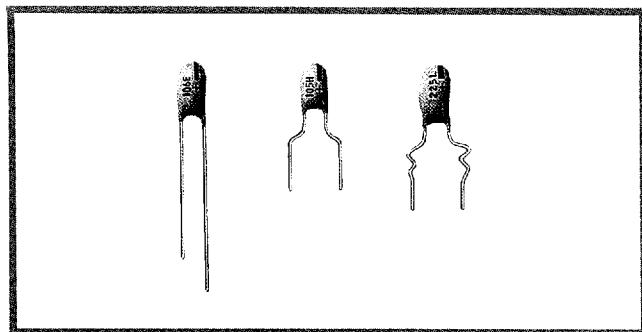


TANTALUM ELECTROLYTIC CAPACITORS

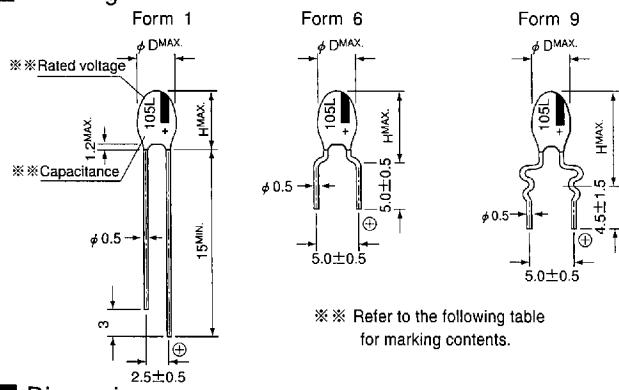
A-05-21-01
nichicon

S89

Resin-coated,
Standard Series



Drawing



Dimensions (mm)

Case code	D	H		
		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	4	6.3	10	16	25	35	※※ Capacitance Code
Code	0G	0J	1A	1C	1E	1V	
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	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 μF)

S 8 9 1 E 1 0 5 M A 1

Series	Capacitance	Case code	Configuration
Rated voltage	Capacitance tolerance	(Bulk : As per left figures) (Taping : Refer to page 165)	

Specifications

Item	Performance Characteristics
Operating Temperature Range	-55~+85°C
Capacitance Tolerance	±20%, ±10% (at 120Hz)
Dissipation Factor	0.1~1 μF 4%Max. 1.5~6.8 μF 6%Max. 10~68 μF 8%Max. 100 μF~ 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 μA, whichever is greater. • After 1 minute's application of rated voltage, leakage current at 85°C is not more than 0.1CV or 5 μA, 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 33Ω 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 3Ω 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.