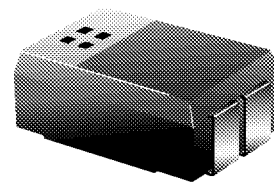


Surface Mount Type Tantalum Solid Electrolytic Capacitors

Series: TE

Type: T



SURFACE MOUNT TYPE

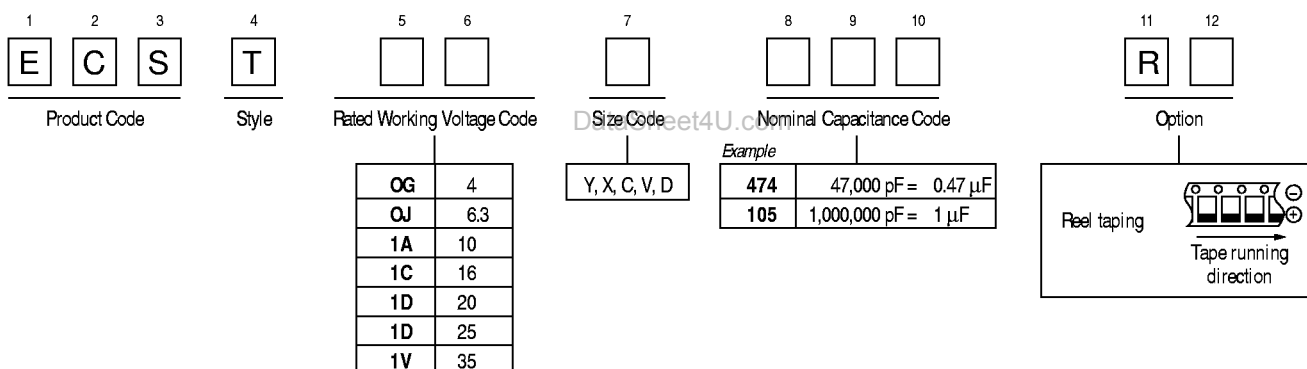
■ Features

- Compact size and wide capacitance range
- Excellent performance in temperature and frequency characteristics
- Excellent solderability
- Excellent terminal construction against bending of P.W.B.
- Low inductance

■ Recommended Applications

- Camcorders, portable telephones, headphone stereos, compact size electronic equipment

■ Explanation of Part Numbers

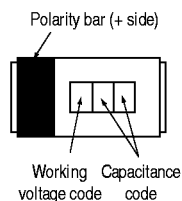


■ Specifications

Operating temperature range	-55 to +125°C	
Rated working voltage	4 to 35 V.DC	
Nominal capacitance range	0.1 to 150 μF	
Capacitance tolerance	±20% (120 Hz/+20°C)	
DC leakage current	I ≤ 0.01 CV or 0.5 (μA) after 2 minutes of rated working voltage at +20°C (Whichever is greater)	
tan δ	≤ 3.3 μF	0.04 max.
	4.7 to 68 μF	0.06 max. (120 Hz / +20°C)
	≥ 100 μF	0.08 max.
Resistance to soldering heat	The capacitor shall withstand dipping into solder for 5±1 seconds at 260±5°C	
Moisture resistance	After 500 hours exposure at +40°C and 90 to 95% R.H. without load, the capacitor shall meet the following limits:	
	Capacitance change	±10% of initial measured value
	tan δ	≤ initial specified value
	DC leakage current	≤ initial specified value
Endurance	After 2,000 hours application of DC rated working voltage at +85°C or derated voltage at +125°C, the capacitor shall meet the following limits:	
	Capacitance change	±10% of initial measured value
	tan δ	≤ initial specified value
	DC leakage current	≤ 125% of initial specified value

■ Marking

Size Y



Working Voltage Code

(V)	4	6.3	10	16	20	25	25
(Code)	G	J	A	C	D	E	V

Capacitance Code

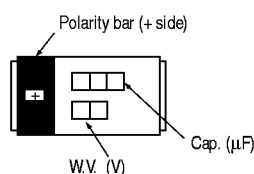
(μF)	1	1.5	2.2	3.3	4.7	6.8
(Code)	A	E	J	N	S	W

Multiplier	10^5	10^6	10^7
Second code	5	6	7

A6: 1.0×10^6 pf (1.0 μF)

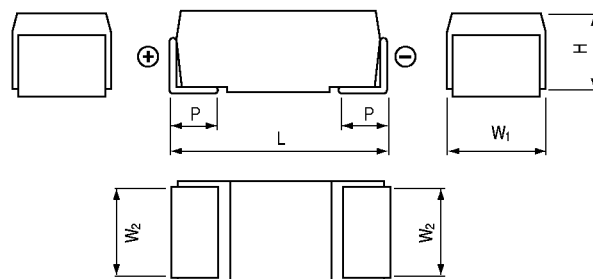
JF: 2.2×10^5 pf (0.22 μF)

Sizes X, C, V, D



Note: 6.3 W.V. abbreviated to 6 V

■ Dimensions in mm (not to scale)



Size code	L ± 0.2	W ₁ ± 0.2	W ₂ ± 0.10	H ± 0.2	P ± 0.3
Y	3.2	1.6	1.20	1.6	0.8
X	3.5	2.8	2.20	1.9	0.8
C	6.0	3.2	2.20	2.5	1.3
V	5.6	4.6	2.40	3.2	1.3
D	7.3	4.3	3.65	2.8	1.3

Note: Each case size has different configuration of terminal.

■ Case Size

Cap. (μF)	Working Voltage													
	4 (0G)		6.3 (0J)		10 (1A)		16 (1C)		20 (1D)		25 (1E)		35 (1V)	
	Standard	Miniature	Standard	Miniature	Standard	Miniature	Standard	Miniature	Standard	Miniature	Standard	Miniature	Standard	Miniature
0.1 (104)														Y
0.15 (154)														Y
0.22 (224)														Y
0.33 (334)														Y
0.47 (474)											Y			Y
0.68 (684)							Y		Y					Y
1.0 (105)							Y				Y		X	Y
1.5 (155)							Y		Y		X	Y	X	
2.2 (225)					Y		Y		X	Y	X		X	
3.3 (335)			Y		Y		Y		X	Y	X		C	X
4.7 (475)	Y		Y		Y		Y		X		C	X	C	
6.8 (685)	Y		Y		Y		X		C	X	C		D, V	C
10 (106)	Y		Y		X	Y	X		C	X	D, V	C	D	V
15 (156)	Y		X	Y	X		C	X	D, V	C	D	V		D
22 (226)	X	Y	X		C	X	D, V	C	D, V			D		
33 (336)	X		C	X	D, V	C	D, V	C	D	V				
47 (476)	C	X	D, V	C	D, V	C	D	V						
68 (686)	D, V	C	D, V	C	D	V		D						
100 (107)	D, V	C	D	V		D								
150 (157)	D	V												

() shows W.V. and capacitance code.