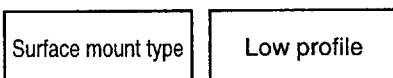


Series: **TES**

Type: **T**

Surface Mount Type Tantalum Solid
Electrolytic Capacitors

Japan



■ Features

● Low profile

Height: H=1.2 mm max.

Product line up of size Z (2.0×1.25×1.2)

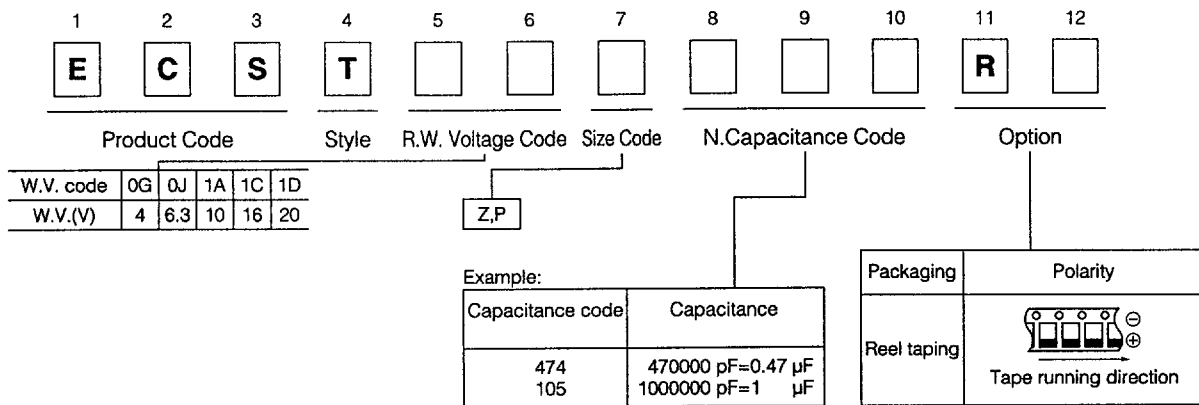
■ Recommended Applications

- Handy headphones stereo, pager, camcorder.

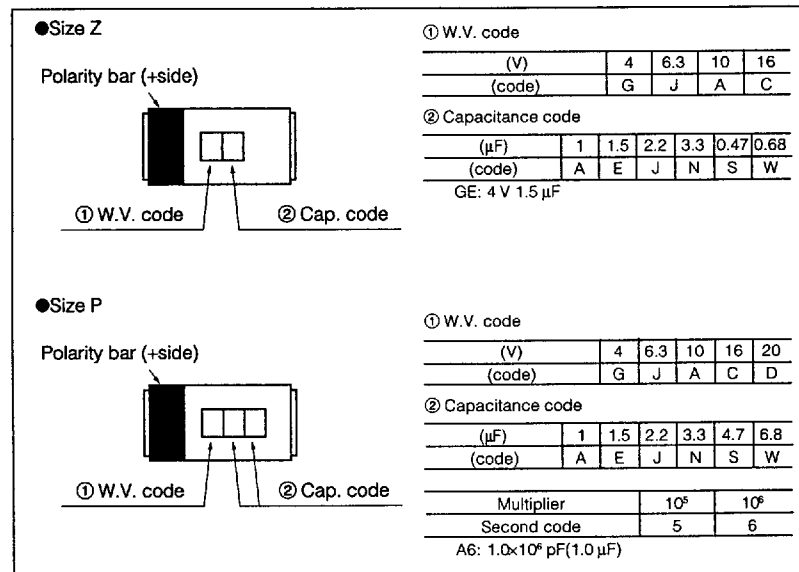
■ Specifications

Operating Temp. Range	-55 to +125 °C								
Rated W.V. Range	4 to 20 V.DC								
Nominal Cap. Range	0.1 to 3.3 µF								
Capacitance Tolerance	±20 % (120 Hz/+20 °C)								
DC Leakage Current	I ≤ 0.5 (µA) after 2 minutes application of rated working voltage at +20 °C								
tan δ	Size P:	≤ 3.3 µF 0.04 max.	(120 Hz/+20 °C)						
	Size Z:	≤ 2.2 µF 0.10 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. <table><tr><td>Capacitance change</td><td>±10 % of initial measured value</td></tr><tr><td>tan δ</td><td>≤ Initial specified value</td></tr><tr><td>DC leakage current</td><td>≤ Initial specified value</td></tr></table>			Capacitance change	±10 % of initial measured value	tan δ	≤ Initial specified value	DC leakage current	≤ Initial specified value
Capacitance change	±10 % of initial measured value								
tan δ	≤ Initial specified value								
DC leakage current	≤ Initial specified value								
Endurance	After 2000 hours application of rated DC working voltage at +85 °C or derated voltage at +125 °C, the capacitor shall meet the following limits. <table><tr><td>Capacitance change</td><td>±10 % of initial measured value</td></tr><tr><td>tan δ</td><td>≤ Initial specified value</td></tr><tr><td>DC leakage current</td><td>≤ 125 % of initial specified value</td></tr></table>			Capacitance change	±10 % of initial measured value	tan δ	≤ Initial specified value	DC leakage current	≤ 125 % of initial specified value
Capacitance change	±10 % of initial measured value								
tan δ	≤ Initial specified value								
DC leakage current	≤ 125 % of initial specified value								

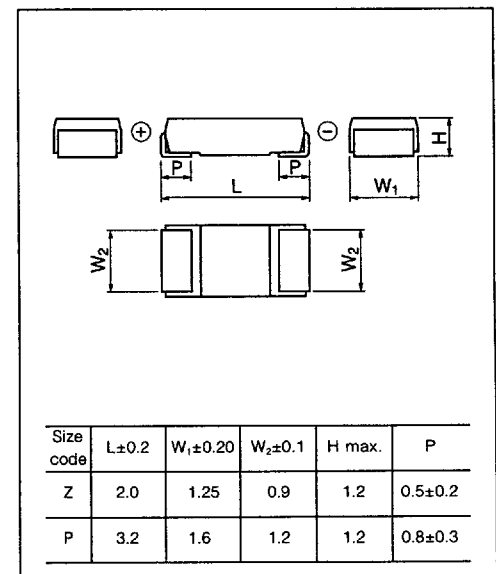
■ Explanation of Part Numbers



■ Marking



■ Dimensions in mm (not to scale)



■ Case size

W.V.(V.DC)	4 (0G)	6.3 (0J)	10 (1A)	16 (1C)	20 (1D)
Cap.(μF)					
0.10 (104)					P
0.15 (154)					P
0.22 (224)					P
0.33 (334)					P
0.47 (474)				Z	P
0.68 (684)				P, Z	P
1.0 (105)			P, Z	P	
1.5 (155)		P, Z	P		
2.2 (225)	P, Z	P			
3.3 (335)	P				

Note: 1. () shows W.V. and capacitance code.
 2. When selecting W.V., see the page 153.
 3. Other rating upon request (voltage, capacitance, tolerance, size)