

NEW

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Surface Mount Type Tantalum Solid Electrolytic Capacitors

Series: **KE**

Type: **K**

Japan

SurfaceMountType	Large Capacitance
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■ **Features**

- 10 μF in 0805 size as of today
- 60 % less volume, 50 % less land space in comparison with mold chip tantalum capacitor in 3216 size
- Same performance and reliability as standard TE series
- Better mountability and solderability

■ **Specifications**

Operating Temp. Range	-55 to +125 °C						
Rated W.V. Range	4, 6.3, 10 V.DC						
Nominal Cap. Range	4.7, 10, 22 μF						
Capacitance Tolerance	$\pm 20\%$ (120 Hz/+20 °C)						
DC Leakage Current	$I \leq 0.01 CV$ or 0.5 μA (Whichever is the greater)						
Dissipation Factor	4.7, 10 μF 0.06 max (120 Hz/+20 °C) 22 μF 0.08 max						
Resistance to Soldering Heat	Capacitors will exposure to +260 °C ± 5 °C for 5 seconds and shall meet the following requirements. <table border="1"> <tr> <td>Capacitance change</td> <td>$\pm 5\%$ of initial measured value</td> </tr> <tr> <td>Dissipation factor</td> <td>\leq Initial specified value</td> </tr> <tr> <td>DC leakage current</td> <td>\leq Initial specified value</td> </tr> </table>	Capacitance change	$\pm 5\%$ of initial measured value	Dissipation factor	\leq Initial specified value	DC leakage current	\leq Initial specified value
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Dissipation factor	\leq Initial specified value						
DC leakage current	\leq Initial specified value						
Moisture Resistance	After 500 hour exposure at 40 °C and 90 to 95 % R.H. without load, the capacitance shall meet the following requirements. <table border="1"> <tr> <td>Capacitance change</td> <td>$\pm 10\%$ of initial measured value</td> </tr> <tr> <td>Dissipation factor</td> <td>\leq Initial specified value</td> </tr> <tr> <td>DC leakage current</td> <td>\leq Initial specified value</td> </tr> </table>	Capacitance change	$\pm 10\%$ of initial measured value	Dissipation factor	\leq Initial specified value	DC leakage current	\leq Initial specified value
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Dissipation factor	\leq Initial specified value						
DC leakage current	\leq 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 requirements. (derated voltage : see page 2) <table border="1"> <tr> <td>Capacitance change</td> <td>$\pm 10\%$ of initial measured value</td> </tr> <tr> <td>Dissipation factor</td> <td>\leq Initial specified value</td> </tr> <tr> <td>DC leakage current</td> <td>$\leq 125\%$ of initial specified value</td> </tr> </table>	Capacitance change	$\pm 10\%$ of initial measured value	Dissipation factor	\leq Initial specified value	DC leakage current	$\leq 125\%$ of initial specified value
Capacitance change	$\pm 10\%$ of initial measured value						
Dissipation factor	\leq Initial specified value						
DC leakage current	$\leq 125\%$ of initial specified value						
Terminal strength	With the capacitors soldered to the test board as illustrated, a force sufficient to cause a 1 mm deflection shall be applied. The capacitance shall be within initial specified value.						

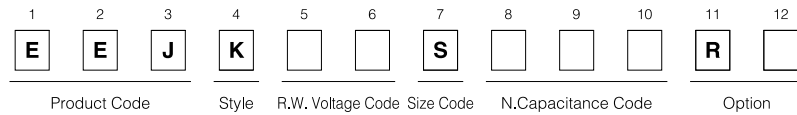
NEW

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Panasonic

Tantalum Solid Electrolytic Capacitors/KE

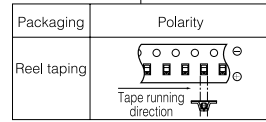
Explanation of Part Numbers



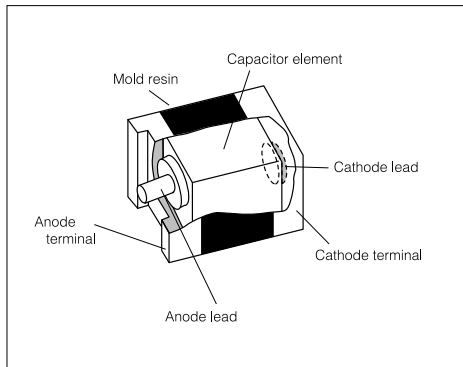
W.V. code	0G	0J	1A
W.V.(V)	4	6.3	10

Example:

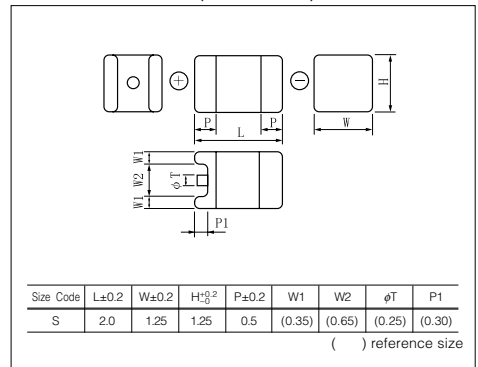
Capacitance Code	Capacitance
106	10000000 pF=10,0μF



Construction



Dimension in mm (not to scale)



Standard products

W.V. (V. DC)	Cap. (μF)	Part number	Cap. Tol. (%)	Leakage Current (μA)	Dissipation Factor	Size Code
4	22	EEJK0GS226R	±20	0.9	0.08	S
6.3	10	EEJK0JS106R	±20	0.7	0.06	S
10	4.7	EEJK1AS475R	±20	0.5	0.06	S