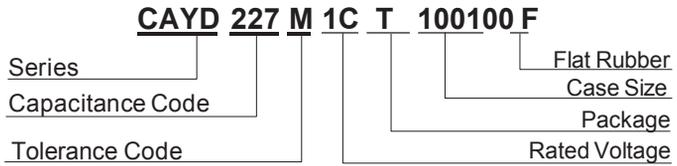


CAYD SERIES: Surface Mount, 125°C

AI. E. CAP.
PART NUMBER EXAMPLE

FEATURES

- ◆ •125°C, 2,000hours assured.
- ◆ •Ultra Low ESR
- ◆ •RoHS Compliance

SPECIFICATIONS


Items	Performance										
Operating Temperature Range	-55°C ~ +125°C										
Capacitance Tolerance	+20% (at 120Hz, 20°C)										
Leakage Current (at 20°C)	I=0.2CV (μA) whichever is greater (after 2 minutes) Where, C=rated capacitance in μF. V=rated DC working voltage in V.										
Dissipation Factor (Tan δ at 120Hz, 20°C)	See the Dimension & Permissible Ripple Current										
ESR (at 100K ~ 300KHz, 20°C)	See the Dimension & Permissible Ripple Current										
Load Life Test	<table border="1"> <thead> <tr> <th>Test Time</th> <th>2.5V-4V: 1,000 Hrs; 6.3V-16V: 2,000Hrs</th> </tr> </thead> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>ESR</td> <td>Less than 200% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </tbody> </table>	Test Time	2.5V-4V: 1,000 Hrs; 6.3V-16V: 2,000Hrs	Capacitance Change	Within ±20% of initial value	Dissipation Factor	Less than 200% of specified value	ESR	Less than 200% of specified value	Leakage Current	Within specified value
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	Dissipation Factor	Less than 200% of specified value									
	ESR	Less than 200% of specified value									
Leakage Current	Within specified value										
* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2,000 hrs at 125°C											
Moisture Resistance	Store at 60°C, 90 to 95% R.H. Test time: 1,000 hrs, other items are the same as those for the load life test.										
	<table border="1"> <thead> <tr> <th>Test Time</th> <th>1,000 Hrs</th> </tr> </thead> <tbody> <tr> <td>Capacitance Change</td> <td>Within +20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 150% of specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Within specified value</td> </tr> </tbody> </table>	Test Time	1,000 Hrs	Capacitance Change	Within +20% of initial value	Dissipation Factor	Less than 150% of specified value	Leakage Current	Within specified value		
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	Dissipation Factor	Less than 150% of specified value									
Leakage Current	Within specified value										
* Leakage current should be tested after voltage treatment.											
Standards	JIS C 5101-1										

DIMENSION & PERMISSIBLE RIPPLE CURRENT

W.V.(V)	Capacitance (μF)	Size (ØxL (mm))	Tan (120Hz, 20°C)	L.C. (μA)	E.S. R. (mΩ/at 100k-300k Hz, 20°C MAX)	Rated R.C. (mA/rms at 100kHz, 125°C)
2.5V(OE)	680	8 x 12	0.18	340	13	1,430
	1000	10 x 10	0.18	500	13	1,645
	1500	10 x 13	0.18	750	13	1,721
4V(OG)	560	8 x 12	0.18	448	13	1,430
	820	10 x 10	0.18	656	13	1,645
	1200	10 x 13	0.18	960	12	1,721
6.3V(OJ)	470	8 x 12	0.15	592	15	1,332
	560	10 x 10	0.15	706	16	1,487
	820	10 x 13	0.15	1,033	12	1,721
10V(1A)	330	8 x 12	0.15	660	17	1,250
	470	10 x 10	0.15	940	18	1,392
	560	10 x 13	0.15	1,360	13	1,655
16V(1C)	180	8 x 12	0.15	576	20	1,151
	220	10 x 10	0.15	704	20	1,400
	330	10 x 13	0.15	1,056	16	1,493

PAD SPACING AND DIAMETER

Unit: mm

D	L	A	B	C	W	P+0.2
8	11.8+ 0.5	8.4	8.4	3.0	0.7 to 1.1	3.1
10	10.0+ 0.5	10.4	10.4	3.3	0.7 to 1.1	4.7
10	12.7+ 0.5	10.4	10.4	3.3	0.7 to 1.1	4.7

