

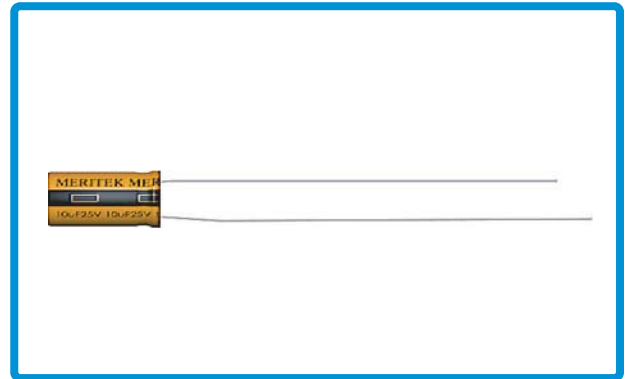
Aluminum Electrolytic Capacitors

LL Series
(Low Leakage)

MERITEK

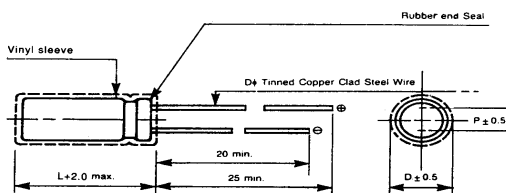
FEATURE

- Low leakage current
- Applications for Hi-Fi pre-amp and TV oscillation



SPECIFICATIONS

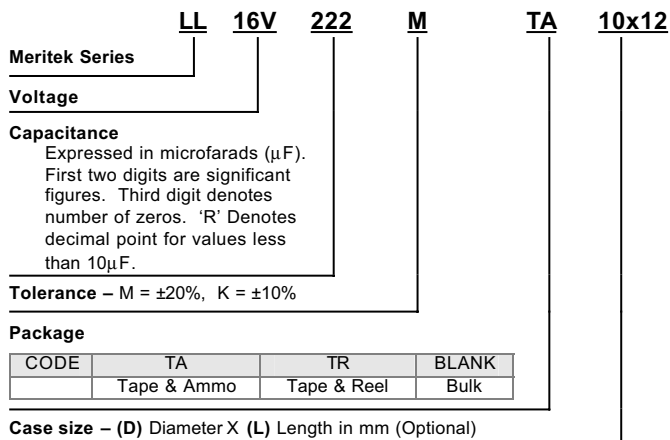
Item	Characteristic														
Operating Temp Range	-40°C to +85°C														
Rated Working Voltage	10 to 50VDC														
Capacitance Tolerance	±20% (M)														
Leakage Current (25°C)	$I \leq 0.002CV$ or $0.4\mu A$, whichever is greater after 3 minutes I = Leakage current (μA) C = Nominal Capacitance (μF) V = Rated voltage (V)														
Surge voltage (25°C)	<table border="1"> <tr> <td>WV</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>SV</td> <td>13</td> <td>20</td> <td>32</td> <td>44</td> <td>63</td> <td>79</td> </tr> </table>	WV	10	16	25	35	50	63	SV	13	20	32	44	63	79
WV	10	16	25	35	50	63									
SV	13	20	32	44	63	79									
Dissipation Factor Tan δ (120Hz, 25°C)	<table border="1"> <tr> <td>WV</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>tan δ</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> </tr> </table>	WV	10	16	25	35	50	63	tan δ	0.20	0.16	0.14	0.12	0.10	0.10
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tan δ	0.20	0.16	0.14	0.12	0.10	0.10									
Load Life	After 1000 hours application of WV at 85°C the capacitor shall meet the following limits. <table border="1"> <tr> <td>Capacitance change</td> <td>$\leq \pm 20\%$ of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>$\leq 200\%$ of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>\leq initial specified value</td> </tr> </table>	Capacitance change	$\leq \pm 20\%$ of initial value	Dissipation Factor	$\leq 200\%$ of initial specified value	Leakage current	\leq initial specified value								
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Shelf Life	At 85°C no voltage applied after 500 hours the capacitor shall meet the following limits. <table border="1"> <tr> <td>Capacitance change</td> <td>$\leq \pm 20\%$ of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>$\leq 200\%$ of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>$\leq 200\%$ of initial specified value</td> </tr> </table>	Capacitance change	$\leq \pm 20\%$ of initial value	Dissipation Factor	$\leq 200\%$ of initial specified value	Leakage current	$\leq 200\%$ of initial specified value								
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LEAD SPACING

D ϕ	5	6.3	8	10	13
p	2.0	2.5	3.5	5.0	5.0
d ϕ	0.5	0.5	0.5	0.6	0.6

PART NUMBERING SYSTEM



CASE SIZE DXL (mm)

WV (SV) / μF	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (73)
0.1					5x11	5x11
0.22					5x11	5x11
0.33					5x11	5x11
0.47					5x11	5x11
1					5x11	5x11
2.2					5x11	5x11
3.3					5x11	5x11
4.7					5x11	6.3x11
10			5x11	5x11	5x11	6.3x11
22		5x11	5x11	6.3x11	8x11	10x12
33	5x11	5x11	6.3x11	8x11	10x12	10x16
47	5x11	6.3x11	6.3x11	8x11	10x12	10x16
100	6.3x11	8x11	10x12	10x12	10x16	13x21
220	8x11	10x12	10x16	10x16		
330	8x11	10x12	10x16			
470	10x12	10x16				
1000	10x16					