

TS13D CD71

FEATURES

- Non-Polarized
- Standard series
- Used in polarity reverse and change circuits

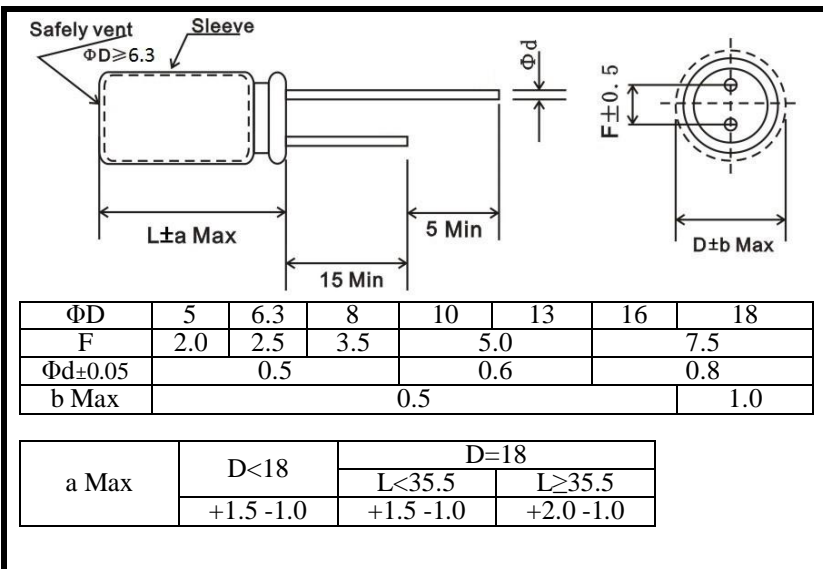


◆ Specifications

SPECIFICATIONS																											
Operating Temperature Range	-40~+105°C																										
Rated Voltage Range	10 ~ 160V																										
Nominal Capacitance Range	0.47 ~ 4700 µ F																										
Capacitance Tolerance	±20% (120Hz, +20°C)																										
Leakage Current	$I \leq 0.03CV + 3(\mu A)$ (1 minute)																										
Dissipation Factor (+25°C, 120Hz)	<table border="1"> <tr> <th>Rated voltage(V)</th> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>160</td> </tr> <tr> <th>Tan δ</th> <td>0.24</td> <td>0.22</td> <td>0.20</td> <td>0.15</td> <td>0.4</td> <td>0.10</td> <td>0.09</td> <td>0.15</td> </tr> </table>	Rated voltage(V)	10	16	25	35	50	63	100	160	Tan δ	0.24	0.22	0.20	0.15	0.4	0.10	0.09	0.15								
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Tan δ	0.24	0.22	0.20	0.15	0.4	0.10	0.09	0.15																			
For capacitance value > 1000 µ F, add 0.02 for every increase of 1000 µ F																											
Temperature Characteristics (120Hz)	<table border="1"> <tr> <th colspan="2">Rated Voltage (V)</th> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> <td>160</td> </tr> <tr> <th rowspan="2">Impedance Ratio</th> <th>Z-25°C/Z+20°C</th> <td>3</td> <td colspan="5">2</td> <td>4</td> </tr> <tr> <th>Z-40°C/Z+20°C</th> <td>8</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>-</td> </tr> </table>	Rated Voltage (V)		10	16	25	35	50	63	100	160	Impedance Ratio	Z-25°C/Z+20°C	3	2					4	Z-40°C/Z+20°C	8	6	5	4	3	-
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Impedance Ratio	Z-25°C/Z+20°C	3	2					4																			
	Z-40°C/Z+20°C	8	6	5	4	3	-																				
Load Life (105°C)	After applying rated voltage for 500x2 hours at +105°C and then resumed 16 hours																										
	Leakage current	≤ Initial specified value																									
	Capacitance change	±20% initial measured value																									
Shelf Life (105°C)	After storage for 1000 hours at +105°C and then resumed 16 hours																										
	Leakage current	≤ 2 Initial specified value																									
	Capacitance change	±20% initial measured value																									
	Dissipation factor	≤ 2 Initial specified value																									

◆ Dimensions

mm



◆ Multiplier for ripple current

Frequency correction		Freq(Hz)				
Rated Voltage(V)	Factor	50,60	120	1K	10K	100K
	6.3 ~ 16		0.80	1	1.1	1.2
25 ~ 35		0.80	1	1.5	1.7	1.7
50 ~ 160		0.80	1	1.6	1.9	1.9

Temperature coefficient		Temperature (°C)	
Temperature (°C)		+70	+85
Factor		1.35	1

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◆ Case Size DxL (mm)

Cap/μF \ WV/V	10V		16V		25V		35V	
4.7	--	--	--	--	--	--	5x11	23
10	--	--	5x11	31	5x11	31	5x11	31
22	5x11	41	5x11	38	5x11	48	6.3x11	52
33	5x11	50	5x11	62	6.3x11	62	6x12	68
47	5x11	58	5x11	71	6.3x11	89	8x12	95
100	6.3x11	102	6x12	115	8x12	147	8x16	152
220	6x12	185	8x12	252	10x13	263	10x17	285
330	8x16	275	8x16	305	10x17	355	10x21	383
470	8x16	310	10x17	363	10x21	408	13x21	415
1000	10x21	575	13x20	648	13x25	768	16x26	802
2200	13x25	955	16x26	1015	16x35	1186	--	--
3300	16x26	1255	19x35	1311	--	--	--	--
4700	19x35	1553	--	--	--	--	--	--

Rated ripple current (mA. m.s./105°C, 120Hz)

Cap/μF \ WV/V	50V		63V		100V		160V	
0.47	--	--	--	--	5x11	9.2	--	--
1	--	--	--	--	5x11	13	--	--
2.2	--	--	--	--	5x11	19	--	--
3.3	5x11	21	5x11	23	5x11	24	8x12	55
4.7	5x11	25	5x11	38	6.3x11	38	8x12	63
10	6.3x11	41	6.3x11	53	8x12	58	10x17	79
22	8x12	84	8x12	88	10x13	95	10x21	118
33	8x12	95	10x13	105	10x21	113	13x25	145
47	8x16	109	10x13	115	10x21	128	12x35	168
100	10x17	183	10x21	215	13x25	234	16x30	338
220	13x21	315	13x25	385	16x26	415	--	--
330	13x25	412	16x26	550	--	--	--	--
470	16x30	529	19x35	598	--	--	--	--

Rated ripple current (mA. m.s./105°C, 120Hz)

Note: Specification are subject to change without notice. For more detail and update, please visit our website.