DM series

Features

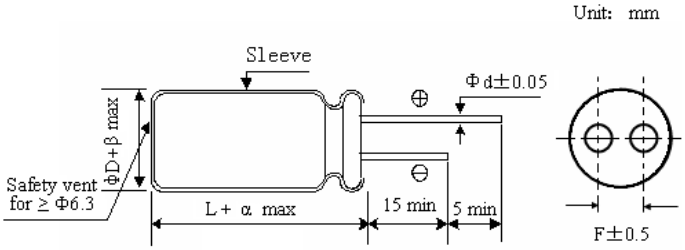
- Lower water series , 2000 hours at 105℃.
- Rated working voltage range 6.3 to 100V DC at operation temperature range -40 to +105℃.
- This series is for communication equipments, switching power supply ,industrial measuring instruments, automotive electric products, etc.
- RoHS Compliant .

Specifications

Item	Performance Characteristics
Temperature Range	-40~+105℃
Rated Voltage Range	6.3~100Vdc
Capacitance Range	1.0~22000μF
Capacitance Tolerance	±20%（120Hz，+20℃）
Leakage Current（+20℃,max.）	I≤0.01CV 或 3（μA）
	After 2 minutes, whichever is greater measured with rated working voltage applied
Dissipation Factor（tgδ）120Hz，+20℃	Working Voltage(Vdc) 6.3 10 16 25 35 50 63 100 D.F (%) max. 26 22 18 16 14 12 10 8 For capacitance>1000μF , Add 2% per another 1000μF (120Hz，+20℃)
Low Temperature Characteristics（120Hz）	Impedance ratio max. Working Voltage(Vdc) 6.3 10 16 25 35 50 63 100 Z-25℃/ Z+20℃ 5 4 3 2 2 2 2 2 Z-40℃/ Z+20℃ 10 8 6 4 3 3 3 3 For capacitance>1000μF , Add 0.5 per another 1000μF For Z-25℃/ Z+20℃,Add 1.0 per another 1000μF For Z-40℃/ Z+20℃
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2000 hours at 105℃ Capacitance Change ≤±20% of the initial value D.F.(tgδ） ≤200% of the initial specified value Leakage Current ≤The initial specified value
Shelf Life	After storing the capacitors under no load at 105℃ for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20℃, they shall meet the specified values for the load life characteristics listed above.
Others	JISC-5101(IEC 60384)

Diagram of Dimensions

Unit: mm



Frequency Multipliers

μF \ Hz		50	120	300	1K	10K~
6.3~100WV	＜47	0.75	1.00	1.35	1.57	2.00
	47~470	0.80	1.00	1.23	1.34	1.50
	＞470	0.85	1.00	1.10	1.13	1.15

ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8
α	(L< 20) + 1.5			(L≥20) + 2.0			
β	(D< 20) + 0.5			(D≥20) + 1.0			

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Standard Ratings

Voltage	6.3V		10V		16V		25V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
4.7							5×11	26
10					5×11	35	5×11	38
22			5×11	49	5×11	54	5×11	57
33	5×11	54	5×11	60	5×11	64	5×11	75
47	5×11	65	5×11	70	5×11	80	5×11	84
68	5×11	70	5×11	75	5×11	90	5×11	92
100	5×11	95	5×11	105	5×11	125	6.3×11	159
220	5×11	153	5×11	170	6.3×11	213	8×12	285
330	6.3×11	216	6.3×11	239	8×12	315	8×12	340
470	6.3×11	258	6.3×11	285	8×12	366	10×12	471
680	8×12	365	8×12	408	10×12	480	10×17	620
1000	8×12	443	10×12	571	10×15	680	10×20	821
2200	10×17	740	10×20	886	13×20	1108	13×25	1314
3300	10×20	1032	13×20	1205	13×25	1389	16×25	1646
4700	13×20	1280	13×25	1492	16×25	1740	16×30	2012
6800	13×25	1554	16×25	1824	16×30	2081	16×35	2308
10000	16×25	1897	16×30	1980	16×35	2379	18×35	2500
22000	18×35	2400	18×40	2407				

Voltage	35V		50V		63V		100V	
Cap(μF)	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1.0			5×11	13	5×11	16	5×11	16
2.2			5×11	20	5×11	23	5×11	23
3.3			5×11	30	5×11	34	5×11	34
4.7	5×11	28	5×11	37	5×11	40	5×11	40
10	5×11	41	5×11	54	5×11	59	6.3×11	61
22	5×11	67	5×11	79	5×11	79	6.3×12	92
33	5×11	80	5×11	101	6.3×11	122	8×12	144
47	5×11	101	6.3×11	133	6.3×11	146	10×12	199
100	6.3×11	168	8×12	229	10×12	251	10×20	349
220	8×12	294	10×15	509	10×20	504	13×25	662
330	10×12	419	10×17	589	13×20	688	13×25	800
470	10×17	547	10×20	707	13×20	810	16×25	990
680	10×20	682	13×20	923	13×25	1160	16×30	1289
1000	13×20	1023	13×25	1287	16×25	1448	18×40	2020
2200	16×25	1497	16×35	1884	18×35	1781		
3300	16×30	1808	18×35	2167				
4700	18×35	2335						
6800	18×40	2400						

Max Allowable Ripple Current (mA, rms) at 105℃ 120Hz, Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices.