常州华威电子有限公司
CHANGZHOU HUA WEI ELECTRONICS CO.,LTD.

DM (CD113/CD114)

◎ Extremely low leakage current.

◎ Used in TVs frequency channel conversion or weak signal import loop circuits.

◎ Adapted to the ROHS directive（2002/95/EC）.

Specifications

Item	Performance Characteristics
Operating temperature range	-40°C ~ +85°C
Rated voltage range	6.3 ~ 100 V
Nominal capacitance range	0.1 ~ 3300μF
Capacitance tolerance	± 20% (100Hz, +20°C)
Leakage current	I ≤ 0.002CV 0.4(μA) 2 (at 20°C,after 2 minutes) (whichever is greater)

Dissipation factor (tg δ) (+20°C , 100Hz)

U_R (V)	6.3	10	16	25	35	50	63	100
tgδ	28	0.24	0.20	0.16	0.14	0.12	0.12	0.10

Temperature characteristics (Impedance ratio at 100Hz)

U_R (V)	6.3	10	16	25	35	50	63	100
Z-25°C／+20°C	4	3	2	1.5	1.5	1.5	1.5	1.5
Z-40°C／+20°C	8	6	4	4	3	3	3	3

Load life

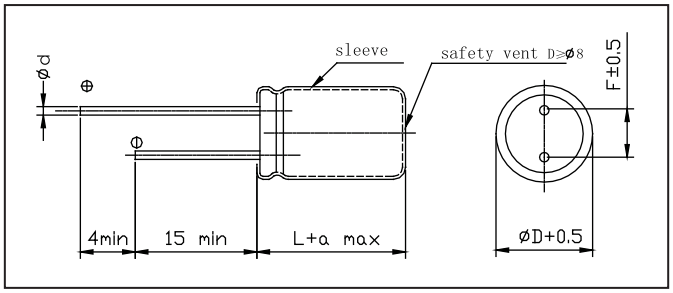
After applying rated voltage for 1000 hours at +85°C and then resumed 16 hours:
Capacitance change： ±20% Initial measured value
Leakage current：≤ Initial specified value
Dissipation factor：≤ 2 times Initial specified value

Shelf life

After storage for 1000 hours at +85°C , U_R to be applied for 30 minutes and then resumed 16 hours
Capacitance change： ±20% Initial measured value
Leakage current：≤ 2 times Initial specified value
Dissipation factor：≤ 2 times Initial specified value

Case size table

Unit: mm



D	5	6	8	10	12	13	16
F	2.0	2.5	3.5	5.0			7.5
d	0.5		0.5、0.6	0.6			0.8

αMAX	（L < 20） 1.5
	（L ≤ 20） 2.0

Low Lc

Dimensions

ØD x L(mm)

U_R / C_R (μF)	Code	6.3		10V		16V		25V	
		0J		1A		1C		1E	
4.7	4R7							5x11	38
6.8	6R8					5x11	36	5x11	47
10	100					5x11	43	6x11	60
15	150					5x11	53	6x11	72
22	220			5x11	56	6x11	74	8x11	99
33	330			6x11	79	6x11	90	8x11	119
47	470			6x11	94	8x11	127	10x12	172
68	680			6x11	113	8x11	153	10x12	207
100	101			8x12	160	10x12	220	10x16	270
150	151	8x12	183	10x12	236	10x16	296	10x20	368
220	221	10x13	260	10x16	310	10x20	390	12x20	510
330	331	10x16	350	10x20	420	12x20	550	12x25	680
470	471	10x20	460	12x20	570	12x20	650	16x25	940
680	681	10x20	554	12x20	686	12x25	895	16x31	1246
1000	102	13x25	840	12x25	910	16x25	1210	16x35	1580
1500	152	13x25	1029	16x25	1297	16x31	1623		
2200	222	16x25	1440	16x31	1710	16x35	2200		
3300	332	16x35	2037	16x35	2209				

U_R / C_R (μF)	Code	35V		50V		63V		100V	
		1V		1H		1J		2A	
0.1	0R1			5x11	6				
0.15	R15			5x11	7				
0.22	R22			5x11	8				
0.33	R33			5x11	10				
0.47	R47			5x11	12				
0.68	R68			5x11	14				
1.0	010			5x11	17				
1.5	1R5			5x11	21			5x11	23
2.2	2R2			5x11	26			6x11	30
3.3	3R3			5x11	32	6x11	36	6x11	36
4.7	4R7	5x11	34	6x11	43	6x11	43	8x11	51
6.8	6R8	5x11	41	6x11	52	6x11	52	10x12	73
10	100	6x11	57	8x11	75	8x11	75	10x16	97
15	150	8x11	82	8x11	92	10x12	109	10x20	130
22	220	8x11	99	10x12	131	10x16	144	10x20	158
33	330	10x12	144	10x16	176	10x16	176	10x20	193
47	470	10x12	172	10x16	210	10x20	230	12x25	288
68	680	10x16	227	10x20	277	10x20	277	12x25	346
100	101	10x20	300	12x20	380	12x25	420	16x25	488
150	151	12x20	422	12x25	514	12x25	514	16x31	654
220	221	12x25	550	16x25	720	16x31	792		
330	331	16x25	790	16x31	970	16x35	1018		
470	471	16x25	940	16x35	1210				
680	681	16x31	1246						

Rated ripple current(mA,+85 °C,120Hz)