

MN CD136型

- ◎耐高纹波,尺寸可调,105℃ 2000小时,可用于大功率电源、UPS不间断电源、变频器等电路中。
High ripple current, Size may be selected, Load life of 2000 hours at 105℃.
Used large power source, Uninterruptible power supplies, Frequency converter circuit .etc.
- ◎RoHS指令已对应完毕。Adapted to the RoHS directive.



主要技术性能 Specifications

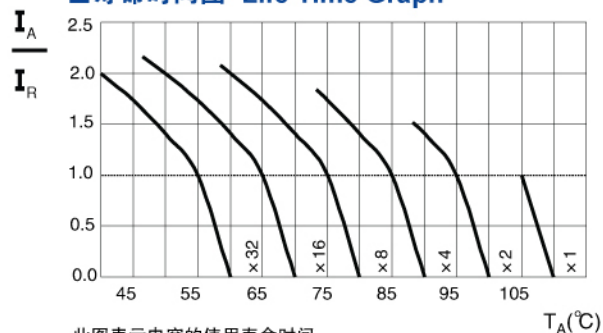
项目 Items	特性 Performance Characteristics				
使用温度范围 Operating temperature range	-40℃ ~ +105℃		-25℃ ~ +105℃		
额定电压范围 Rated voltage range	25 ~ 100 V		160 ~ 450 V		
标称电容量允许偏差 Capacitance tolerance	±20% (120Hz, +20° C)				
漏电流 Leakage current	I ≤ 0.01CV(μA)或5mA 5分钟 取较小值 (at 20℃, after 5 minutes, Whichever is smaller)				
损耗角正切 (tg δ) Dissipation factor (+20℃, 120Hz)	小于图表中规定的数值 Less than the value specified in the standard products tables				
温度特性 Temperature characteristics (Impedance ratio at 120Hz)	Rated Voltage (V)	25~50	63~100	160~250	350~450
	Z _{-25℃} /Z _{+20℃}	4	3	5	8
	Z _{-40℃} /Z _{+20℃}	12	10		
高温贮存 Shelf life	+105℃, 1000小时贮存后, 加额定工作电压处理30分钟, 恢复16小时后: After storage for 1000 hours at +105℃, U _R to be applied for 30 minutes and then resumed 16 hours: 电容量变化率 capacitance change : ±20%初始测量值以内 Initial measured value. 漏电流 Leakage current : ≤初始规定值 Initial measured value. 损耗角正切值 Dissipation factor : ≤2倍初始规定值 2times Initial specified Value.				

	使用寿命(Useful Life)		负载寿命(Load Life)	耐久性测试(Endurance Test)
寿命时间(Lifetime)	4000h	> 200000h	2000h	2000h
漏电流(Leakage current)	≤初始规定值 Not more than specified value		≤初始规定值 Not more than specified value	≤初始规定值 Not more than specified value
电容量变化率(Capacitance Change)	±30%初始测量值内 Within ±30% initial value		±20%初始测量值内 Within ±20% initial value	±10%初始测量值内 Within ±10% initial value
损耗角正切值(Dissipation Factor)	≤3倍初始规定值 Not more than 300% of specified value		≤2倍初始规定值 Not more than 200% of specified value	≤1.3倍初始规定值 Not more than 130% of specified value
应用条件 (Condition)				
应用电压(Applied Voltage)	U _R	U _R	U _R	U _R
应用电流 (Applied Current)	I _R	1.2 × I _R	I _R	I _R =0
应用温度 (Applied Temperature)	85℃	40℃	85℃	85℃
失效率(Outlier Percentage)	≤1%	≤1%	0%	IEC60384

频率的修正系数 Frequency coefficient

Frequency (Hz)	50	100 (120)	300	1k	3k	10k	≥20k
Rated Voltage (V)							
25~50	0.95	1.00	1.04	1.10	1.12	1.15	1.15
63~100	0.95	1.00	1.06	1.16	1.22	1.30	1.36
160~450	0.80	1.00	1.10	1.25	1.35	1.50	1.55

寿命时间图 Life Time Graph



此图表示电容的使用寿命时间
The graphs shows a typical trend of the standard capacitor useful life.

■ 尺寸 Dimensions

UR (SV)	Capacitance (μF)	Dissipation Factor	Max ESR 20°C, 120Hz (mΩ)	Typ ESR 20°C, 120Hz (mΩ)	Ripple Current 105°C, 120Hz (Arms)	SIZE D × L (mm)
25 (32)	10000	0.35	50	25	2.9	35 × 50
	15000	0.35	33	20	4.2	35 × 80
	22000	0.35	23	13	5.1	35 × 80
	33000	0.40	17	10	6.3	35 × 100
	47000	0.40	12	7	8.0	51 × 75
	68000	0.50	11	6	10.0	51 × 115
	100000	0.60	9	5	11.3	63.5 × 95
	150000	0.80	6	4	12.9	63.5 × 115
	220000	1.00	5	3	14.8	76 × 115
	330000	1.00	4	2	19.9	89 × 130
35 (44)	6800	0.30	63	32	2.6	35 × 50
	10000	0.30	43	25	3.7	35 × 80
	15000	0.30	29	17	4.5	35 × 80
	22000	0.35	23	12	5.5	35 × 100
	33000	0.40	17	8	6.7	51 × 75
	47000	0.45	14	6	8.1	51 × 95
	68000	0.50	11	5	10.0	51 × 115
	100000	0.60	9	4	12.1	63.5 × 115
	150000	0.70	7	4	13.8	76 × 115
	220000	0.70	5	3	17.6	89 × 130
50 (63)	3300	0.20	87	50	2.2	35 × 50
	4700	0.25	76	36	3.3	35 × 50
	6800	0.25	53	32	3.4	35 × 80
	10000	0.25	36	22	4.1	35 × 80
	15000	0.30	29	14	4.9	35 × 100
	22000	0.35	23	10	5.9	51 × 75
	33000	0.40	17	7	7.8	51 × 115
	47000	0.40	12	6	9.5	63.5 × 95
	68000	0.45	9	5	11.6	63.5 × 115
	100000	0.50	7	4	14.1	76 × 115
63 (79)	2200	0.15	98	70	2.1	35 × 50
	3300	0.20	87	50	2.2	35 × 50
	4700	0.20	61	36	3.1	35 × 80
	6800	0.20	42	25	3.7	35 × 80
	10000	0.25	36	20	4.4	35 × 100
	15000	0.25	24	14	5.7	51 × 75
	22000	0.30	20	10	6.8	51 × 95
	33000	0.30	13	7	9.2	63.5 × 95
	47000	0.35	11	6	10.9	63.5 × 115
	68000	0.40	8	5	13.0	76 × 115
80 (100)	3300	0.15	65	38	3.0	35 × 80
	4700	0.15	46	27	3.6	35 × 80
	6800	0.20	42	19	4.0	35 × 100
	10000	0.20	29	17	5.2	51 × 75
	15000	0.25	24	11	6.2	51 × 95
	22000	0.25	16	8	8.2	63.5 × 95
	33000	0.30	13	7	9.7	76 × 95
	47000	0.30	9	6	12.5	76 × 115

UR (SV)	Capacitance (μF)	Dissipation Factor	Max ESR 20°C, 120Hz (mΩ)	Typ ESR 20°C, 120Hz (mΩ)	Ripple Current 105°C, 120Hz (Arms)	SIZE D × L (mm)
100 (125)	1000	0.15	215	70	1.4	35 × 50
	1500	0.15	143	55	1.7	35 × 50
	2200	0.15	98	38	2.5	35 × 80
	3300	0.15	65	25	3.0	35 × 80
	4700	0.15	46	21	3.9	35 × 100
	6800	0.15	32	19	5.0	51 × 75
	10000	0.15	22	13	6.5	51 × 95
	15000	0.20	19	9	7.6	63.5 × 95
	22000	0.20	13	7	9.7	76 × 95
	33000	0.25	11	6	11.8	76 × 130
	47000	0.25	8	5	15.0	89 × 130
	160 (200)	470	0.15	457	265	1.4
680		0.15	316	186	1.7	35 × 50
1000		0.15	215	125	2.2	35 × 80
1500		0.15	143	85	2.8	35 × 80
2200		0.15	98	55	3.6	35 × 100
3300		0.15	65	38	4.8	51 × 80
4700		0.15	46	35	6.3	51 × 95
6800		0.15	32	25	8.1	63.5 × 95
10000		0.15	22	15	10.5	76 × 95
15000		0.15	14	11	14.1	76 × 130
22000		0.15	10	6	17.2	89 × 130
200 (250)		330	0.15	651	375	1.0
	470	0.15	457	262	1.3	35 × 50
	680	0.15	316	180	1.4	35 × 50
	1000	0.15	215	125	2.2	35 × 80
	1500	0.15	143	75	2.9	35 × 100
	2200	0.15	98	50	3.6	51 × 75
	3300	0.15	65	36	4.8	51 × 95
	4700	0.15	46	24	6.4	63.5 × 95
	6800	0.15	32	16	8.2	63.5 × 115
	10000	0.15	22	12	10.5	76 × 115
	15000	0.15	14	6	14.1	89 × 130
	250 (300)	330	0.15	651	241	1.1
470		0.15	457	169	1.3	35 × 50
680		0.15	316	117	1.8	35 × 80
1000		0.15	215	79	2.4	35 × 100
1500		0.15	143	53	2.9	51 × 75
2200		0.15	98	36	4.0	51 × 95
3300		0.15	65	24	5.4	63.5 × 95
4700		0.15	46	17	7.0	63.5 × 115
6800		0.15	32	11	8.9	76 × 115
10000		0.15	22	8	12.0	76 × 155
15000		0.15	14	6	15.8	89 × 155
400 (450)		1000	0.15	215	92	3.3
	1200	0.15	179	77	4.0	51 × 95
	1500	0.15	143	62	4.8	51 × 115
	1800	0.15	119	51	5.6	51 × 130

Screw

■ 尺寸 Dimensions

UR (SV)	Capacitance	Dissipation Factor	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Ripple Current 105°C, 120Hz	SIZE D × L
(V)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)
400 (450)	2200	0.15	98	42	5.9	63.5 × 95
	2700	0.15	80	34	7.2	63.5 × 115
	3300	0.15	65	28	8.0	63.5 × 130
	3900	0.15	55	23	9.3	63.5 × 155
	4700	0.15	46	19	11.3	63.5 × 170
	4700	0.15	46	19	10.0	76 × 130
	5600	0.15	38	16	12.5	63.5 × 195
	5600	0.15	38	16	12.0	76 × 155
	6800	0.15	32	13	14.0	89 × 150
	8200	0.15	26	11	15.3	89 × 155
	10000	0.15	22	9	18.3	89 × 170

UR (SV)	Capacitance	Dissipation Factor	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Ripple Current 105°C, 120Hz	SIZE D × L
(V)	(μF)	-	(mΩ)	(mΩ)	(Arms)	(mm)
450 (500)	470	0.15	457	195	2.2	51 × 80
	680	0.15	316	135	2.8	51 × 95
	1000	0.15	215	90	3.5	51 × 100
	1500	0.15	143	61	4.9	51 × 130
	2200	0.15	98	42	6.6	63.5 × 115
	3300	0.15	65	28	8.3	76 × 130
	4700	0.15	46	19	10.7	76 × 155
	5600	0.15	38	16	12.7	89 × 155
	6800	0.15	32	13	14.5	89 × 170
	8200	0.15	26	11	17.0	89 × 190
	10000	0.15	22	10	19.8	89 × 220