

Product specification

Products Name: Aluminum Electrolytic Capacitors

Products Series: CD263 Series

Nantong Jianghai Capacitor Co.,Ltd

Designed	Checked	Approved
Xuchenjun	Hexiaoyun	Dingjihua

ADD:NO.79,Tongyang South Road ,Pingchao.Town ,Nantong City ,Jiangsu Province ,P.R.China

TEL:0086-0513-86726014

FAX:0086-0513-86571812

P.C 226361

1.Adapt Range

The product specification is adapted to CD263 series Aluminum Electrolytic Capacitors of Nangtong Jianghai Capacitor Co.,Ltd

2.Electrical characteristics

(1). Operating Temperature Range:

-40~+105℃ (6.3~250VDC); -25~+105℃ (315~500VDC)

(2). Rated Voltage Range:6.3~500VDC

(3). Rated Capacitance:0.1~15000uF

(4). Rated Capacitance Tolerance:-20%~+20% (20℃, 120Hz)

(5).Dissipation Factor(max) (20℃, 120Hz):

W _V (V)	6.3	10	16	25	35	50	63	100	160	200	250	315~500
tg δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.15	0.15	0.20

When nominal capacitance is over 1000uF, tg δ shall be added 0.02 to the listed value with increase of every 1000uF.

(6).DC Leakage Current(uA, Max)

6.3~100VDC : 0.01CV or 3 which is greater(2 minutes)

160~400VDC: CV≤1000:0.1CV+40 (1Minute)

CV>1000:0.04CV+100 (1Minute)

C: Rated Capacitance (uF); V: Rated Voltage (V)

3. Load Life(105℃)

Applied Voltage :maximum value of DC voltage overlapped by an allowable ripple current and continued for 2000h in a 105℃ test chamber

The capacitors shall be remove from the test chamber and stabilized at room temperature for 16hrs. at least. After this time the data has to meet the following limits:

Capacitance change(Δ C/C)	≤ ±20% of the initial measured value
Dissipation Factor (tg δ)	≤200% of the specified value
Leakage current(I _L)	≤the specified value

4. Shelf Life(105℃)

Time:1000h,no voltage applied. The capacitors shall be remove from the test chamber and stabilized at room temperature for 24hrs. at least. Next they shall be connected to a series limiting resistor(1K Ω),with DC.Rated Voltage applied for 30min . After this time the data has to meet the following limits:

Capacitance change (Δ C/C)	≤ ±20% of the initial measured value
Dissipation Factor (tg δ)	≤200% of the specified value
Leakage current(I _L)	≤ the specified value

5. Ripple Current Frequency Coefficient

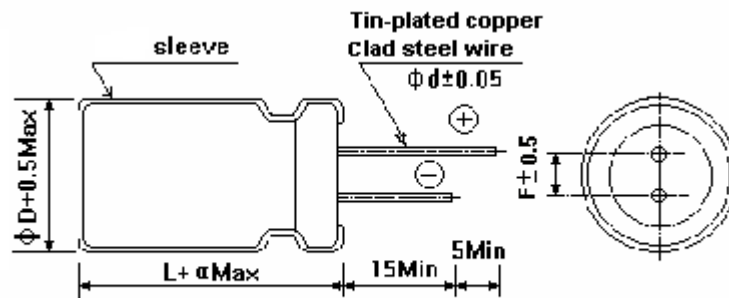
Rated Voltage (V)	Freq(Hz) Cap(uF)	50,60	120	1K	10K	50K	100K
6.3~100	0.1~4.7	0.32	0.4	0.7	0.8	0.92	1.0
	10~47	0.40	0.5	0.8	0.9	0.96	1.0
	100~220	0.56	0.7	0.9	0.9	0.96	1.0
	330~1000	0.64	0.8	0.9	1.0	1.0	1.0
	2200~15000	0.72	0.9	1.0	1.0	1.0	1.0
160~500	0.47~10	0.80	1.0	1.75	2.0	2.4	2.5
	22~47	0.80	1.0	1.6	1.8	1.9	2
	68~220	0.80	1.0	1.3	1.4	1.6	1.65

6. Ripple Current Temperature Coefficient

Temperature (°C) Rated Voltage(V)	+70	+85	+105
6.3~100	2.0	1.7	1.0
160~500	1.8	1.4	1.0

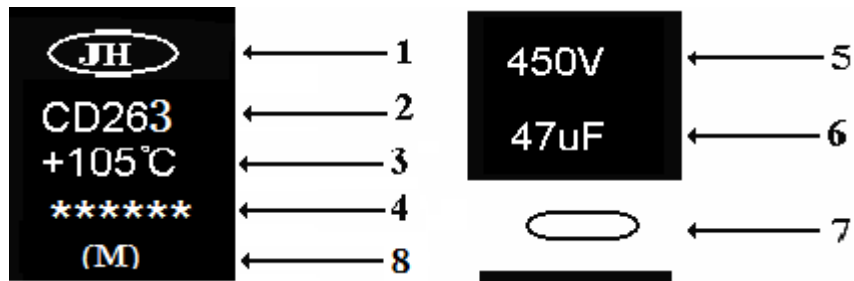
7. Physical dimension

(all dimension in mm)



ΦD	5	6.3	8	10	12.5	16	18	20	22
F	2.0	2.5	3.5	5.0	7.5	7.5	10	10	10
Φd	0.5	0.6	0.8	0.8	1.0	1.0	1.0	1.0	1.0
α	1.5	2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5

8. Marking



NO.	Item	NO.	Item
1	Brand	5	Rated voltage
2	Products series	6	Capacitance
3	High temperature	7	Polarity
4	Year code	8	Capacitance Tolerance (For the diameter of D≤8mm products, capacity deviation means position adjustment to the upper temperature)

9.Specified Value

JIANGHAI P/N	Rated Voltage (V.DC)	Rated Capacitance 20°C,120Hz (uF)	Leakage Current 20°C,2min (uA)	Dissipation Factor(%) 20°C, 120Hz	Rated Ripple Current 105°C, 100KHz (mArms)	Case Size (D*L mm)
ECR1VBK470MLL050011	35	47	16.45	12	130	5*11.5
ECR2GBK4R7MLL080011	400	4.7	175.2(1min)	20	38	8*11.5