

# C54 <sup>系列</sup> SERIES

#### ■ 外形图 Outline Drawing

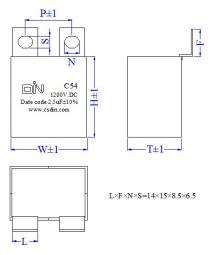


图1 (Style1)

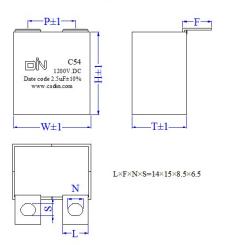


图2 (Style2)

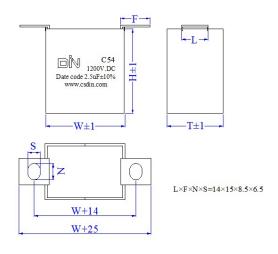
#### ■ 特点

- ●塑料外壳封装,阻燃(UL94V-0级)树脂灌封
- ●等效串联电阻小, 自感小
- ●损耗小,内部温升小

#### ■ 主要用途

- ●高压脉冲,高频应用
- ●适合作为IGBT的吸收电容





Features

• Plastic case, epoxy resin sealing (UL 94V-0)

图3 (Style3)

- •Low ESR, Low ESL
- •Low loss and small inherent temperature rise

#### ■ Typical application

- For high pulse and high frequency application
- •Especially designed as snubber capacitor for IGBT

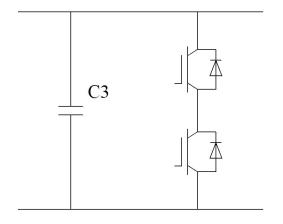
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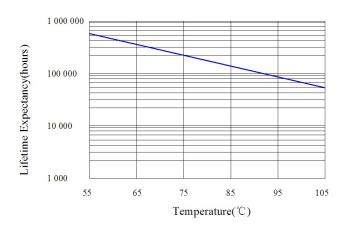
# ■ 技术参数 Technical Specifications

项目 Items	性能要求 Characteristics
引用标准/Reference standards	GB/T 17702 IEC 61071
容量范围/Capacitance	0.047μF ~9.0μF
额定电压/Rated Voltage	630V.DC~3000V.DC
容量偏差/Tolerance	±5% ±10%
损耗角正切/Dissipation factor	tgδ≤10×10 <sup>-4</sup> at 25°C±5°C,1KHz
绝缘电阻/Insulation resistance	C·R≥5000S,at500V.DC,25°C±5°C,60s
工作温度范围/Operating temperature range	-40°C ~85°C
极间耐电压/Test voltage between terminals	1.5Un (10S,25°C±5°C)
极壳耐电压/Test voltage between terminals and case	3000V.AC(10S,50/60Hz,25°C±5°C)
最高使用海拔/Max Altitude	2000m
预期寿命/Expected lifetime	100 000hrs @ Un,θhs=70°C
失效率/Failure rate	100FIT

# ■典型线路/Typical circuit



## ■ 预期寿命曲线/Expected lifetime curve



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#### ■ 产品编码说明/Part number code system

#### ▲ 18 位产品代码如下:

#### ▲ The 18 digits part number is formed as follow:

С	5	4															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

1~3位: 型号代码

4~6位: 标称容量

如: 104=10×10<sup>4</sup>PF=0.1uF

7~10位: 内部特征码

11位: 容量偏差

 $J=\pm5\%$ ,  $K=\pm10\%$ ,  $M=\pm20\%$ 

12~13位: 额定电压

25=630V, 29=850V, 3A=1000V

3C=1200V、3H=1600、3K=2000V

3N=2500V \ 3S=3000V

14~17位: 型体

Digit 1~3: Series code

Digit 4~6:Rated capacitance value

Example: 104=10×10<sup>4</sup>PF=0.1uF

Digit 7~10: Internal use

Digit 11: Capacitance tolerance

J=±5%, K=±10%, M=±20%

Digit 12~13: Rated voltage

25=630V, 29=850V, 3A=1000V

3C=1200V, 3H=1600, 3K=2000V

3N=2500V \, 3S=3000V

Digit 14~17: Type

14位 Digit 14				15位 Digit 15		16、17位 Digit 16、17				
代码	引出方式		代码	插片类型		代码		安装孔。 Distance of hole	for fixing	
Code	Style of solder slice		Code	Specifications of solder slice		Code	P	焊片间距 The distance of solder slice	引出方式 Style of solder slice	
A	图1(Style 1)		1	双折插片 Double fold (L*F*N*S) 14*15*8.5*6.5		20	20	6		
В	图2(Style 2)		1			25	25	11	图1(Style 1) 或	
C	图3(Style 3)			单折插片 Single fold		35	35	21	图2(Style 2)	
			2	(L*F*N*S) 14*15*8.5*6.5		40	40	26		
						50	50	36		
						54	54	40	图3(Style 3)	
						68	68	54		

18位: 外壳宽带

3=37.5mm 4=42.5mm 5=57.5mm

Digit18: Width of case

3=37.5mm 4=42.5mm 5=57.5mm

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静电	静电 Outline size (mm) 容量		nm)	dv/dt	Î	ESR @100kHz	Irms @70°C/100KHZ	Ls	Part number
台里 Cap(uF)	W	Н	T	(V/us)	(A)	$(m\Omega)$	(A)	(nH)	i art numoci
					Un: 630V.I	DC/700V.DC/420V.	AC		
0.68	37.0	25.0	15.0	900	612	5.0	13	23	C54684***\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1.0	"	30.0	16.0	"	900	**	14	"	C54105****\[25+*3\]
1.2	"	"	"	"	1080	4. 5	16	"	C54125****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1.5	"	34.0	20.0	"	1350	66	17	"	C54155****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1.8	"	٠.	66	66	1620	44	18	66	C54185****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
2.0	42.0	40.0	20.0	600	1200	4.0	18	29	C54205****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
2.2	"	"	66	66	1320	٠.	18. 5	66	C54225****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
2.5	"	٠.	66	66	1500	44	19	66	C54255****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3.0	66	44.0	24.0	66	1800	66	20	66	C54305****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3.3	"	"	"	66	1980	3. 5	20	"	C54335****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
4.0	"	"	"	"	2400	"	21	••	C54405****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
4.7	"	45.0	30.0	66	2820	"	23	66	C54475****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
5.0	"	"	"	"	3000	3.0	23. 5	••	C54505****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
6.0	"	43.0	42.0	66	3600	"	25	"	C54605****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
6.5	"	"	"	"	3900	66	26	"	C54655****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
6.5	57. 0	45.0	30.0	360	2340	2. 5	24	33	C54655****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
7.0	"	"	٠.	66	2650		25	66	C54705****\_25+*5
8.0	"	50.0	35.0	"	2880	"	27	"	C54805****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
9.0	44	"	66	66	3240	66	29	66	C54905****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
			1 <b>-</b> 0	1000	1	60V.DC /450V.AC			
0.47	37. 0	25.0	15.0	1200	564	5. 0	15	23	C54474**** \( \text{29} + \text{*3} \)
0. 68		30.0	16.0	66	816		16		C54684**** 29+*3
1.0		34. 0	20.0	66	1200		17	66	C54105**** 29+*3
1.2	66	"	66	66	1440		17. 5	66	C54125****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1.5		"	"	66	1800		18	66	C54155****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1.5	42.0	40.0	66	750	1125	4.5	18. 5	29	C54155****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
2.0		"	٠.	66	1500	"	19	66	C54205**** 29+*4
2.2	66	"		66	1650		19. 5	66	C54225****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
2.5		44.0	24.0	"	1875	**	20	66	C54255****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3.0	"	"	"	"	2250	66	21	66	C54305****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3.3		45.0	30.0	"	2475		21. 5	66	C54335****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
4.0	"	43.0	42.0	"	3000	66	22	"	C54405****\[29+*4\]
4.0	57. 0	45.0	30.0	450	1800	4.0	23	33	C54405**** 29+*5
4.7	"	"	"	"	2115	66	24. 5	"	C54475****\[\]29+*5
5.0	"	٠.	٠.	66	2250	66	25	66	C54505****\[ 29+*5
6.0	"	50.0	35.0	66	2700	66	26	٠.	C54605****\[ 29+*5
6.5	"	66	66	44	2925	66	27	66	C54655****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

♦ 备注: 特殊需要可根据客户要求另行设计

♦ Note: Special requirements can be designed according to customer requirements

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静电	Outl	ine size (n	nm)	dv/dt	Î	ESR @100kHz	Irms @70°C/100KHZ	Ls	Part number
容量 Cap(uF)	W	Н	Т	(V/us)	(A)	$(m\Omega)$	(A)	(nH)	Part number
• ` ` `					Un: 10	00V.DC/500V.AC			•
0.47	37.0	25.0	15.0	1300	611	5.0	14	23	C54474**I*\[\]3A+*3
0.47	32.0	29.0	19.0	2200	1034	4.0	21	15	C54474**H*□3A+*3
0.68	37.0	30.0	16.0	1300	884	5.0	15	23	C54684**** 3A+*3
0.82	66	66	66	66	1066	66	16	"	C54824**** 3A+*3
1.0	"	34.0	20.0	44	1300	4.5	17	"	C54105****\Bigcip 3A+*3
1.2	"	"	"	44	1560	66	66	"	C54125****□3A+*3
1.2	42.0	40.0	20.0	850	1020	66	16	29	C54125****□3A+*4
1.5	"	"	"	44	1275	66	66	"	C54155****□3A+*4
2	"	44.0	24.0	44	1700	66	17	"	C54205**** 3A+*4
2.2	"	"	"	44	1870	4.0	20	"	C54225****□3A+*4
2.5	"	45.0	30.0	44	2125	66	21	"	C54255****\\ 3A+*4
3.0	"	"	"	"	2550	"	21.5	"	C54305**** 3A+*4
3.3	"	43.0	42.0	"	2805	٠.	22	"	C54335****\\ 3A+*4
3.3	57.0	45.0	30.0	500	1650	٠.	20	33	C54335****□3A+*5
4.0	"	"	"	"	2000		21	"	C54405**** 3A+*5
4.7	"	50.0	35.0	"	2350	"	22	"	C54475**** 3A+*5
5.0	"	٠.	"	"	2500		23	"	C54505****□3A+*5
					Un: 120	00V.DC /600V.AC			
0.33	37.0	25.0	15.0	1500	495	4.5	15	23	C54334***\\ 3C+*3
0.47	"	30.0	16.0	46	705	66	16	"	C54474**** 3C+*3
0.68	44	34.0	20.0	66	1020	66	17	"	C54684***\\\ 3C+*3
0.75	"	"	"	44	1125	66	18	"	C54754**** 3C+*3
0.82	42.0	40.0	٠.	950	779	4.0	<b>دد</b>	29	C54824**** 3C+*4
1.0	"	"	"	44	950	66	19	"	C54105****\\ 3C+*4
1.2	**	44.0	24.0	44	1140	66	19	"	C54125****\\ 3C+*4
1.5	44	66	66	44	1425	66	19. 5	"	C54155****\\ 3C+*4
2.0	**	45.0	30.0	46	1900	66	20	"	C54205**** 3C+*4
2.2	"	43.0	42.0	46	2090	66	21	"	C54225****\\ 3C+*4
2.5	44	"	"	66	2375	66	22	"	C54255****\\ 3C+*4
2.2	57.0	45.0	30.0	600	1320	3.8	20	33	C54225****\\ 3C+*5
2.5	66	"	"	"	1500	cc	21	"	C54255****\\ 3C+*5
3.0	"	66	66	"	1800	• • •	22	"	C54305****\\ 3C+*5
3.3	"	50.0	35.0	"	1980	cc	23	"	C54335****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
4.0	"	"	"	"	2400		24	"	C54405****\\ 3C+*5

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静电容易	Outl	ine size (n	nm)	dv/dt	Î	ESR @100kHz	Irms @70°C/100KHZ	Ls	Part number
容量 Cap(uF)	W	Н	T	(V/us)	(A)	$(m\Omega)$	(A)	(nH)	Part number
					Un: 16	00V.DC/650V.AC			
0.22	37.0	25.0	15.0	1900	418	6. 0	15	23	C54224****□3H+*3
0.33	"	30.0	16.0	"	617	• •	15. 5	"	C54334****□3H+*3
0.39	"	34.0	20.0	"	741	5. 5	16	**	C54394***□3H+*3
0.47	"	66	"	"	896	"	17	"	C54474****□3H+*3
0.68	42.0	40.0	"	1250	850	4.0	18	29	C54684***□3H+*4
0.82	"	44.0	24.0	"	1025		19	"	C54824****□3H+*4
1.0	"	45.0	30.0	"	1250		19. 5	**	C54105****□3H+*4
1.2	"	"	"	"	1500	**	20	"	C54125****□3H+*4
1.5	"	43.0	42.0	"	1875	"	21	**	C54155****□3H+*4
1.5	57. 0	45.0	30.0	750	1125	3. 5	22	33	C54155****□3H+*5
2.0	"	50.0	35.0	"	1500	66	24	66	C54205****□3H+*5
					Un: 170	00V.DC /675V.AC			
0.15	37.0	25.0	15.0	2000	300	7. 0	14	23	C54154****□3I+*3
0.22	"	30.0	16.0	"	440	6.0	15	"	C54224***\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
0.33	"	34.0	20.0	"	660	5. 5	15. 5	"	C54334***\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
0.39	"	66	66	"	780	5. 5	16	"	C54394***\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
0.47	42.0	36.0	24.0	1260	592	4.0	16	29	C54474****□3I+*4
0.56	"	66	66	"	706	• •	17	"	C54564****□3I+*4
0.68	"	44.0	"	"	857	3. 5	18	"	C54684****\\\ 3I+*4
0.82	"	"	"	"	1033	**	19	"	C54824**** 3I+*4
1.0	"	45.0	30.0	"	1260		20	**	C54105****\\ 3I+*4
1.2	"	43.0	42.0	"	1512	66	21	٠.	C54125****□3I+*4
1.0	57. 0	45.0	25. 0	780	780	"	18	33	C54105**** 3I+*5
1.2	"	43.5	29.5	"	936	"	19	"	C54125****\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1.5	"	50.0	35.0	"	1170	"	22	44	C54155****\\\ 3I+*5
2.0	"	٠.	66	"	1560	3.0	24	66	C54205****\\ 3I+*5
3.0	"	55.0	45.0	"	2340	"	28	"	C54305****\\ 3I+*5

<sup>♦</sup> 备注: 特殊需要可根据客户要求另行设计

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静电 容量	Outl	ine size (n	nm)	dv/dt	Î	ESR @100kHz	Irms @70°C/100KHZ	Ls	Part number
合里 Cap(uF)	W	Н	Т	(V/us)	(A)	$(m\Omega)$	(A)	(nH)	Fart number
					Un: 20	00V.DC/700V.AC			
0.10	37.0	25.0	15.0	2241	224	8.0	14	23	C54104**** 3K+*3
0.15	"	"	"	"	336	8.0	15	"	C54154****□3K+*3
0.22	"	30.0	16.0	"	493	6.0	15. 5	"	C54224****□3K+*3
0.33	"	34.0	20.0	"	740	6.0	16	"	C54334***\Big 3K+*3
0.47	42.0	40.0	20.0	1300	611	4.0	17	29	C54474****□3K+*4
0.56	"	44.0	24.0	"	728	4.0	18	"	C54564****□3K+*4
0.68	46	"	"	"	884	3. 5	18. 5	"	C54684****□3K+*4
0.82	"	45.0	30.0	"	1066	3. 5	19	"	C54824****□3K+*4
1.0	"	43.0	42.0	"	1300	3. 5	21	"	C54105****□3K+*4
1.0	57.0	45.0	30.0	850	850	4.0	24	33	C54105****□3K+*5
1.2	"	"	"	"	1020	4.0	23	"	C54125****□3K+*5
1.5	"	50.0	35.0	"	1275	4.0	24	"	C54155****□3K+*5
					Un: 25	00V.DC/725V.AC			
0.068	37.0	25.0	15.0	3230	220	8.5	14	23	C54683****□3N+*3
0.10	"	30.0	16.0	66	323	"	15	66	C54104****\\ 3N+*3
0.15	"	34.0	20.0	66	485	8.0	16	66	C54154****□3N+*3
0.18	"	66	66	66	581	7. 5	17	"	C54184****□3N+*3
0.22	42.0	40.0	66	2100	462	4.0	66	29	C54224****□3N+*4
0.33	"	44.0	24.0	66	693	66	17. 5	"	C54334****□3N+*4
0.47	"	45.0	30.0	66	987	3.5	18	66	C54474****□3N+*4
0.68	"	43.0	42.0	66	1428	66	18. 5	"	C54684****□3N+*4
0.68	57.0	45.0	30.0	1200	816	66	19	33	C54684****□3N+*5
1.0	"	50.0	35.0	46	1200	"	18. 5	66	C54105****□3N+*5
					Un: 30	00V.DC/750V.AC			
0.047	37.0	25.0	15.0	3361	158	8. 5	13	23	C54473****□3S+*3
0.068	"	30.0	16.0	"	229	8.0	14	"	C54683****□3S+*3
0.10	"	34.0	20.0	46	336	7. 5	15	66	C54104****□3S+*3
0.15	"	"	"	"	504	7. 0	15. 5	"	C54154****□3S+*3
0.22	42.0	40.0	66	2050	451	5.0	16	29	C54224****□3S+*4
0.33	"	45.0	30.0	"	677	4. 5	16. 5	"	C54334****□3S+*4
0.47	"	43.0	42.0	"	964	4.0	18	66	C54474****□3S+*4
0.47	57.0	45.0	30.0	1200	564	"	18. 5	33	C54474****□3S+*5
0.68	"	50.0	35.0	46	816	66	19	66	C54684****□3S+*5
0.82	"	46	44	44	984	3. 5	20	66	C54824****□3S+*5

- ♦ 备注: 特殊需要可根据客户要求另行设计
- ♦ Note: Special requirements can be designed according to customer requirements
- ♦ 1. "\*\*\*"表示内部特征码; "\*\*\*"=Internal use
- ♦ 2. "□"表示容量偏差; "□"= Capacitance tolerance
- ♦ 3. "+"表示引出方式; "+"= Style of solder slice
- ♦ 4. "\*"表示引出端型体; "\*"= Specifications of terminals
- ◆ 5. "\_"表示脚距; "\_"= Pitch

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