

DR Series Epoxy-Coated Solid Electrolytic Tantalum Capacitor

DR型樹脂包封固體電解質鉭電容器

產品簡介 Brief Introduction:

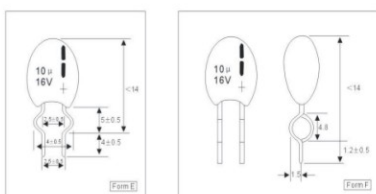
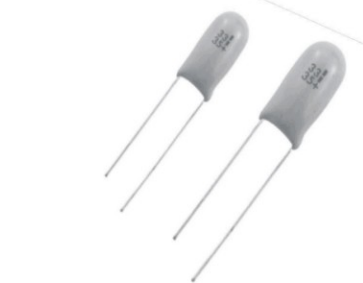
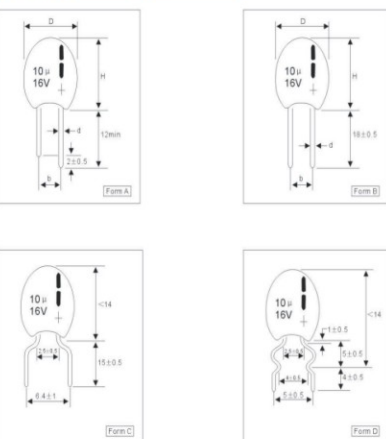
DR 型系列電容器是燒結層極、樹脂包封固體電解質鉭電容器，產品採用優質的抗潮、阻燃性黃色環氧樹脂粉末包封，鐳射打印標誌，其性能符合並優於 IEC384-15-3 及 IECQC300201/US0003 以及 SJ/T10856-96 技術規範，是為電視機、錄像機、計算機、交換機、電話、儀器、儀表等軍用和民用電子整機配套的理想產品。

DR Series sinter--anode, epoxy--coated solid electrolyte tantalum capacitors are encapsulated with flame retardant yellow epoxy powder, marked with laser. DR Series meets and exceeds the requirements of IEC Specification 384-15-3, IECQ Specification Qc3 00201/US0003 and Technical Specification SJ/T10856-96, used in military and civil applications such as TV sets, camcorders, computers, Program--controlled electronic telephone switching systems, telephones, instruments and meters.

主要技術性能 Features:

- 使用溫度範圍: -55°C ~ +125°C (大於 85°C, 以降額電壓使用)
- 額定電壓: 見表 I
- 漏電流: $I_0 \leq 0.02CRUR$ 或 $1 \mu A$ (取大者) (20°C 時)
- 損耗角正切: 見表 II
- 容量範圍: 0.047 μF ~ 680 μF 見表 I
- 容量偏差: $\pm 20\%$; $\pm 10\%$; $\pm 5\%$ (特殊訂購)
- 尺寸型號: 見表 II
- 溫度特性: 見表 II
- Operating temperature Range: -55°C ~ +125°C; (>85°C with rated voltage derating)
- Rated Voltage: See table 1
- DC leakage at 25°C: $I_0 \leq 0.02CRUR$ or $1 \mu A$ (Whichever is greater).
- Dissipation factor at 20°C: Please see Table 3
- Capacitance range: 0.047 μF ~ 680 μF , see Table 1
- Capacitance tolerance: $\pm 20\%$; $\pm 10\%$; $\pm 5\%$; (for special order);
- Case sizes and dimensions, Please see Table 2
- Temperature characteristics: See Table 3

引線形式 Lead Styles



■ 允許有其它引線形式 Other lead styles are available

包裝 Packaging information

- A: 彈匣式編帶 (符合 IEC286-2 標準)
- B: 袋裝
- A: Ammo pack (per Specification IEC286--2)
- B: Bulk pack

容量範圍、尺寸型號 Rated Voltage, Nominal Capacitance and Case Size

表 I table 1-1

額定電壓 (V) Rated Voltage	3(0F)	4(0G)	6.3(0J)	10(1A)	16(1C)	20(1D)	25(1E)	35(1F)	50(1H)
降額電壓 (V) Voltage Derating	2	2.5	4	6.3	10	13	16	20	32
突波電壓 (V) @ 85°C Surge Voltage	4	5.2	8	13	20	26	33	46	65
標稱電容 (μF) Capacitance	尺寸型號 Case Size								
0.047								A	A
0.068								A	A
0.1								A	A
0.15								A	A
0.22								A	A
0.33								A	A
0.47								A	A
0.68								A	A
1.0					A	A	A	A	B
1.5					A	A	A	A	C
2.2				A	A	A	A	A	B
3.3				A	A	A	B	B	D
4.7	A	A	A	B	B	B	B	C	E
6.8	A	H	A	B	B	C	C	D	E
10	A	A	B	C	B	C	C	D	F
15	A	A	B	C	C	D	D	E	F
22	B	B	C	C	C	D	D	E	F
33	B	B	C	D	D	E	E	F	F
47	C	D	D	D	D	E	E	F	F
68	D	D	D	E	E	F	F	F	F
100	D	D	E	E	E	F	F	F	F
150	D	E	E	F	F	F	F	F	F
220	E	E	E	F	F	F	F	F	F
330	E	F	F	F	F	F	F	F	F
470	F	F	F	F	F	F	F	F	F
680	F	F	F	F	F	F	F	F	F

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溫度特性 Temperature characteristics

表 II table 2

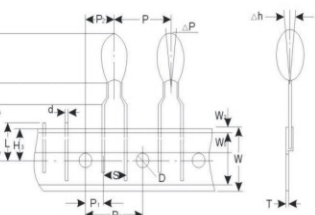
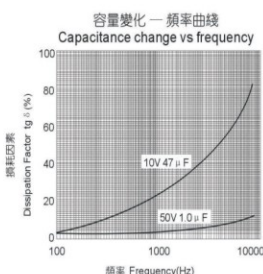
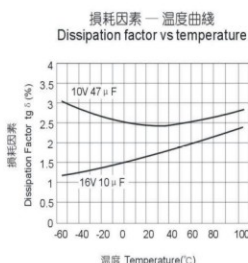
容量 Capacitance (μF)	容量變化 (%) Capacitance Change			損耗最大值 (%) DF Max				漏電流最大值 (μF) DCL Max		
	-55°C	+85°C	+125°C	-55°C	+20°C	+85°C	+125°C	+20°C	+85°C	+125°C
< 1.0	± 10	± 15	± 25	6	4	6	6	$I_0 \leq 0.02CRUR$ 或 (if) $1 \mu A$ (取大者 whichever is greater)	10I ₀	12.5I ₀
1.5-6.8	± 10	± 15	± 25	8	6	8	8			
10-68	± 10	± 15	± 25	10	8	10	10			
100-680	± 10	± 15	± 25	12	10	12	12			

尺寸型號一覽表 Dimensions (mm)

表 III table 3

尺寸型號 Case Size	D (max)	H (max)	h (± 0.5 mm)	d (± 0.5 mm)
A	4.5	7.5	2.5	0.5
B	5.0	8.5	2.5	0.5
C	5.5	9.5	2.5	0.5
D	6.5	11.0	2.5	0.5
E	8.5	13.0	5.0	0.5
F	9.5	16.5	5.0	0.5

特性曲線 Typical Characteristic Curve



名稱 Designation	符號 Symbol	尺寸 Dimensions (mm)
元件間距 Pitch of component	P	12.7 \pm 1.0
給進孔間距 Feed hole pitch	P0	12.7 \pm 0.3
紙帶寬度 Tape width	W	18 \pm 1-0.5
粘膠帶寬度 Hold down tape width	W0	10 \pm 2.0
給進孔位置 Hold position	H3	9 \pm 0.75 - 0.5
粘膠帶位置 Hold down tape position	W2	3.0 max
元件頂部到給進孔距離 Overall component height	H1	32.5 max
元件偏差 Component alignment	ΔP	± 1.3 max
給進孔直徑 Feed hole diameter	D	4.0 \pm 0.2
紙帶厚度 Tape thickness	T	0.5 \pm 0.2
元件偏差 Component alignment	Δh	± 2.0 max
引線切角長度 Length of snipped leads	L	11 max
引線鉗切腳高度 Lead clinch height	H	16 \pm 0.5
引線間距 Lead wire spacing	S	2.5 \pm 0.5 5.0 \pm 0.7
給進孔中心到引線間距 Feed hole center to wire center	P1	5.10 \pm 0.5 3.85 \pm 0.7
給進孔中心到元件中心距離 Hole center to component center	P2	6.35 \pm 0.4
元件引線根部到給進孔間距 Component height	H2	18 \pm 2-0
引線直徑 Lead diameter	d	0.5 \pm 0.1

