

特点

- 符合 GB/T 5966(IEC 60384-8, IDT)标准
- 温度系数呈线性
- 电容量稳定性高
- 在大范围频率应用上损耗低
- 符合 RoHS 2.0 的要求，无卤

应用

- 谐振电路
- 高 Q 值需求电路
- 电容量高稳定性电路

普通特性

Features

- Comply with GB/T 5966 (IEC 60384-8) standards
- Linear temperature coefficient of capacitance
- High stability of capacitance
- Low loss at wide range of frequency
- RoHS 2.0 complied, halogen-free

Applications

- Resonant circuit
- High Q value requirement
- high stability capacitance characteristics

General specifications

操作温度范围 Operating temperature range	-25°C to +125°C
电容量 (C _R) Capacitance (C _R)	Range: 0.5pF to 1 000pF Tolerance: C(±0.25pF), D(±0.50pF), J(±5%), K(±10%) 在 25±1°C 下使用 1MHz (100kHz) 1.0Vrms 进行测量，在允许偏差范围内。 Measured at 1MHz (100kHz), 1.0Vrms and 25°C±1°C, within the specified tolerance.
Q 值 Q Value	≥30pF: Q≥1 000 <30pF: Q≥400+20C _R 测量条件同“电容量(C _R)” Measured condition see “Capacitance (C _R)”
额定电压(U _R), DC Rated Voltage (U _R), DC	50V to 6 300V 在两导线间施加下列电压，时间 1s 到 5s (充/放电流小于 50mA): The capacitor should not be damaged when the following voltage is applied between the lead wires for 1 to 5 sec (Charge / Discharge current ≤50mA). <630V, 2.5U _R ≥630V, 1.5U _R +500V
绝缘电阻 Insulation Resistance	>10 000MΩ 在两导线间施加额定电压(额定电压大于 500V 时，使用 500V)进行测量，时间不超过 1 分钟 (如果绝缘电阻达到要求值时，试验可以在更短的时间内结束)。 The insulation resistance should be measured with a DC voltage not exceeding the rated voltage (above 500V rated voltage tested by 500V) at normal temperature and humidity and less than 1 min. of charging (The test may be terminated in a shorter time, if the required value of insulation resistance is reached).
温度系数 Temperature coefficient	NP0, N80, N150, N220, N330, N470, N750, SL etc.

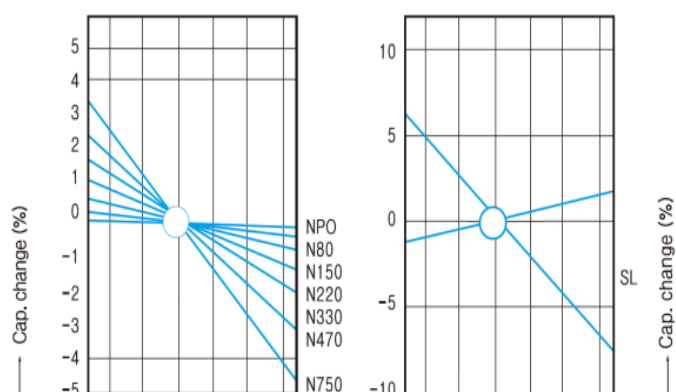
温度系数表

Temperature coefficient Chart

T.C.	10 ⁻⁶ /K	EIA Code	IEC Code
NP0	0±60	C0H	CH
N80	-75±30	U1G	UG
N150	-150±60	P2H	PH
N220	-220±60	R2H	RH
N330	-330±60	S2H	SH
N470	-470±60	T2H	TH

温度系数曲线

Temperature coefficient curve



N750	-750±120	U2J	UJ
SL	+350~-1000	---	SL



温度补偿型陶瓷电容器

Temperature compensation type ceramic capacitors

电容量与尺寸规格表

Capacitance and Dimension Chart

额定电压, VDC Rated Voltage, VDC		50 / 100					500			1000			2000 / 3000			4000		6300			
温度系数 Temperature coefficient		NPO	N150	N220	N470	N750	SL	NPO	N750	SL	NPO	N750	SL	NPO	N750	SL	NPO	SL	NPO	SL	
容量(pF) Cap.(pF)	误差 Tol.																				
0.5	±0.25pF ±0.5pF	B						C			C			D			D				
1.0		B						C			C			D			D				
9.1		B							C			C			D	C		D			D
10	±5% ±10%	B						C			C			D	C		D				
11		B						C			C			D	C		D				
12		B	B					C			C			D	C		D				D
13		B	B						C			C			D	C		D			D
15	±5% ±10%	B	B	C				C			C	C		D	D		D				D
16		B	B	C				C			C	C		D	D		E				D
18		B	B	C			B		C			C	C	D	D		F				D
20		B	B	C		C	B		C			C	C	D	D		F			E	
22	±5% ±10%	B	B	C	C	B		C	C		C	C		D	D		F				D
24		B	B	C	C	B		C	C		C	C		E	F		H				D
27		B	B	C	C	B		C	C		C	C		E	F		J				D
30		B	B	C	C	B		C	C		D	C		G	G		J				D
33	±5% ±10%	B	B	C	C	B		C	C		D	C		G	G		D				D
36		B	B	C	C	B		D	C		D	D		G	G		L				D
39		B	B	C	C	B		D	C		D	D		G	G		L				D
43		B	B	C	C	B		D	C	C	D	D		G	G		L				D
47	±5% ±10%	C	C	E	C	B		D	D		D	D	C	G	J		D				H
51		C	C	E	C	B		D	E		C	G	E	H	J		D		M		G
56		C	C	E	E	B		D	E		C	G	E	H	J		D		N		G
62		D	D	E	E	C	B		D	E	C	G	E	H	J		F		N		G
68	±5% ±10%	D	D	G	F	C		B	G		E	C		H	J		F				G
75		D	D	G	F	C		B	G		E	C		H	J		H				G
82		D	D	G	F	C		B	G		E	C		H	J		H				G
91		E	E	J	G	E		B	H		G	C		L	L		H				G
100	±5% ±10%	E	E	J	G	E		B	H		G	C	H	G	D		L				K
110		G	G	J	H	F		B	K		I	C		I	F						K
120		G	G	J	J	F		B	K		I	D		I	F						K
130		G	G	J	J	F		B	K		I	D		I	F						
150	±5% ±10%	H	H	L	J	F		C	K		I	D		I	F						L
160		J	J	L	J	I		C	K		K	F		K	F						L
180		J	J	L	L	I		C	K		K	F		K	F						L
200		J	J	N	L	I		C	L		L	F		K	G						L
220	±5% ±10%	K	L	N	N	K		D			M	G		L	G						P
240		K	L		N	K		D				H		L	H						P
270		K	L		N	K		E				H		L	H						P
300		L	M			K		G				J			J						P
330	±5% ±10%	L	M			K		G				J			J						P
360		N				K		G				J			J						P
390		N				K		G				J			J						P
430		N				K		G				K			K						P
470	±5% ±10%							I													
510								I													
560									I												
620									K												
680	±5% ±10%							K													
750								K													
820									K												
910									K												
1000	±10% ±20%							N													
1200								N													
T, mm max.		3.0					3.5			4.0			4.5			5.0		6.0			
F ₁ ±0.8mm		2.5 / 5.0					5.0			5.0 / 7.5			7.5 / 10.0			7.5 / 10.0		10.0			
D ₁ ±0.05mm		0.40					0.45			0.50			0.50			0.55		0.60			
L, mm min.		脚长可以根据客户需求订制 (没有要求时, 酚醛包封脚长不小于 16mm; 环氧树脂包封脚长不小于 20mm) Lead length by customer requirements (No requirement: 16mm min. by Phenolic resin coating; 20mm min. by Epoxy resin coating).																			

包封 Coating	酚醛树脂 Phenolic resin			酚醛或环氧树脂 Phenolic resin Epoxy resin		环氧树脂 Epoxy resin		环氧树脂 Epoxy resin		环氧树脂 Epoxy resin		环氧树脂 Epoxy resin		环氧树脂 Epoxy resin		
代码 Code	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
D, mm max.	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	18.0