


承认书

APPROVAL SHEET

客户 CUSTOMER	立创
客户料号 CUSTOMER P/N	
规格描述 DESCRIPTION	50V/104/K/F0/卧式/TB/环氧(黄)/X7R/0603
产品编码 PART NUMBER	CD1H104K0DPHR1D000
日期 DATE	2023-12-15

德尔创承认栏 APPROVED BY DERSONIC			客户承认栏 APPROVED BY CUSTOMER	
批准 APPROVED BY	审核 CHECK BY	制订 FORMULATE BY	批准 APPROVED BY	审核 CHECK BY
彭少雄	 吴成爱	吴成爱		

东莞市德尔创电子有限公司

DONGGUAN DERSONIC ELECTRONIC CO., LTD.

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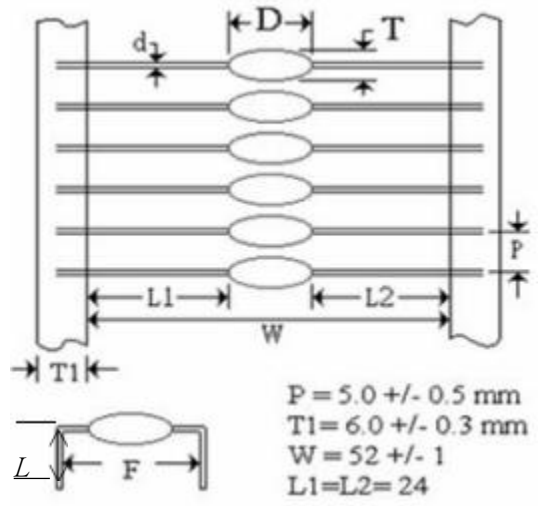
Website: <http://www.dersonic.com>

MECHANICAL :

- External Dimension (D) : 4.35 mm (Max.)
- Thickness (T) : 2.50 mm (Max.)
- Lead Diameter(d) : 0.5 mm ± 0.05 mm
- Lead Spacing (F) : 7.5 mm ± 0.8 mm
- Lead Length (L) : 5.0 mm ± 0.5 mm
- Soldering Test : 250 °C ± 5 °C
- Pull Test : 5 Lbs

Marking : 104

Packaging Units (Qt'y) : 5000 Pcs /Per Box



ELECTRICAL :

- Capacitance : 100000PF
- Capacitance Tolerance : + 10 % ~ - 10 %
- Q or D.F : 0.025 Max.

Insulation Resistance : ≥10GΩ or 500MΩ. μF

- Working Voltage : 50 V Dc
- Dielectric Withstanding : 125 V Dc for 1 ~ 5 sec.

TEMPERATURE CHARACTERISTIC :

According to EIA STD : **X7R** Capacitor change of + 15 % ~ - 15 %
 between the temperature range of - 55 C ~ + 1 2 5 C

TESTING INSTRUMENTS :

1. Temperature Compensating Type : hp4278A
2. High Dielectric Type : hp4278A
3. ROOM TEMP : 25 ± 3 °C
4. TEST FREQUENCY AND VOLTAGE : 1KHz , 1.0Vrms

MONOLITHIC (MULTILAYER) CERAMIC CAPACITORS

- Capacitance Range

Style	Rate Voltage	NPO	X7R	X5R	Y5V	Z5U
0603	6.3V			155~225	475	
	10V			334~105	225	
	16V		224	105	105	
	25V		104~154	224	474	
	50V	010~222	221~104		104~224	
	100V	010~122	221~223			
	250V	101~681				
0805	6.3V			155 ~ 106	475 ~ 226	
	10V			334 ~ 475	225 ~ 106	
	16V		224 ~ 225	105	105 ~ 475	
	25V		104 ~ 155	224	474 ~ 225	
	50V	100 ~ 103	221 ~ 334		104 ~ 105	224 ~ 105
	100V	100 ~ 472	221 ~ 104			
	250V	821 ~ 272	102 ~ 333			
1206	6.3V			106 ~ 226	476	
	10V			685 ~ 106	226	
	16V		335 ~ 475	106	106	
	25V		684 ~ 225	335	475	
	50V	392 ~ 333	474 ~ 105		225	
	100V	392 ~ 103	333 ~ 474			
	250V	332 ~ 822	153 ~ 154			
	500V	101 ~ 332	102 ~ 333			

MONOLITHIC (MULTILAYER) CERAMIC CAPACITORS

• Electrical Characteristics

NPO

Item	Temperature Compensating	Measuring Condition
Operating Temperature Range	- 55 ~ +125°C	
Temperature Characteristics	0 ± 30 ppm/°C	
Capacitance	Within the specified tolerance	Shall be measured at 25°C ± 2°C at the frequency and voltage
Q	C ≥ 30pF : Q ≥ 1000 C < 30pF : Q ≥ 400 + 20 × C (C is nominal capacitance)	C ≤ 1000pF@1MHz ± 20%, 1 ± 0.2Vrms C > 1000pF@1KHz ± 10%, 1 ± 0.2Vrms
Withstanding Voltage	No defects	Applied voltage : Rated voltage × 2.5 100V~500V Rated voltage(over) × 1.5 Duration : 1 to 5 sec. The charge/discharge current is less than 50mA
Insulation Resistance	More than 10GΩ or 500MΩ · μF , whichever is less 16Vdc product : More than 10GΩ or 100MΩ · μF , whichever is less	Apply rated voltage for 1 minute at 25°C ± 2°C and 70% R.H. max. 16Vdc product : Measurement voltage is 25Vdc

MONOLITHIC (MULTILAYER) CERAMIC CAPACITORS

• Electrical Characteristics

X7R/X5R/Y5V/Z5U

Item	High Dielectric Constant		Measuring Condition
Operating Temperature Range	X7R = -55 ~ +125°C X5R = -55 ~ +85°C Y5V = -30 ~ +85°C Z5U = +10 ~ +85°C		
Temperature Characteristics	X7R/X5R= ± 15% Y5V= +22 to -82% Z5U= +22 to -56%		
Capacitance	Within the specified tolerance		
Dissipation Factor ($\tan \delta$)	25V min	X7R=0.03max. X7R=0.055max. ($C \cong 1.0\mu F$) Y5V=0.075max. Z5U=0.09max.	Shall be measured at 25°C ± 2°C at the frequency and voltage X7R/X5R/Y5V @ 1KHz ± 10%, 1 ± 0.2Vrms Z5U @ 1KHz ± 10%, 0.5 ± 0.2Vrms
	16V	X7R/X5R=0.05max. Y5V=0.10max.	
	10V max.	X7R/X5R=0.05max. Y5V=0.125max.	
	6.3V	X5R=0.075max.	
Withstanding Voltage	No defects		Applied voltage : Rated voltage ×2.5 100V~500V Rated voltage(over) ×1.5 Duration : 1 to 5 sec. The charge/discharge current is less than 50mA
Insulation Resistance	More than 10GΩ or 500MΩ · μF , whichever is less. 16Vdc product : More than 10GΩ or 100MΩ · μF , whichever is less.		Apply rated voltage for 1 minute at 25°C ± 2°C and 70% R.H. max. . 16Vdc product : Measurement voltage is 25Vdc