

规格书编号

SPEC NO :

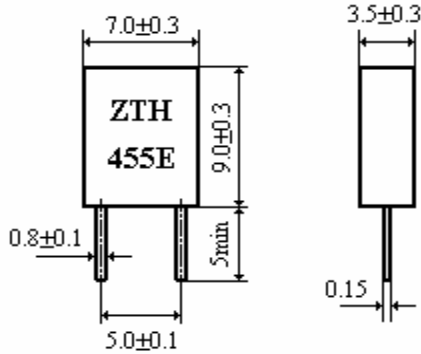
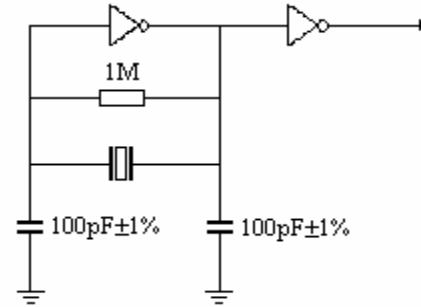
产品规格书

SPECIFICATION

CUSTOMER 客户: _____
PRODUCT 产品: _____ CERAMIC RESONATOR _____
MODEL NO 型号: _____ ZTH455E _____
PREPARED 编制: _____ fengyu _____ CHECKED 审核: _____ york _____
APPROVED 批准: _____ lijiating _____ D A T E 日期: _____ 2008-6-28 _____

客户确认 CUSTOMER RECEIVED:		
审核 CHECKED	批准 APPROVED	日期 DATE

无锡市好达电子有限公司
Shoulder Electronics Limited

■ Dimensions

■ Test Circuit


IC: 1/6CD4069UBE(RCA)
V_{DD}: +5V

■ Electrical Characteristics

1. Oscillating Frequency (Fosc)	455 ± 2kHz
2. Resonant Impedance(R ₀)	≤ 20 Ω
3. Static Capacitance	285pF ± 20%
4. Insulation Resistance	≥ 100M Ω (100V DC)
5. Absolute Maximum Voltage	—
(1) Maximum D.C. Voltage	50V DC
(2) Maximum Input Voltage	15Vp-p
6. Temperature Characyeristic	≤ ± 0.3% (-20°C ~ +80°C)
7. Change of Oscillating Frequency after Enviromental Test	≤ ± 0.3%
8. Operating Temperature Range	-20°C ~ +80°C
9. Storage Temperature Range	-55°C ~ +85°C
10. Aging for 10 Years	≤ ± 0.5%

■ Enviromental Characteristics

Items	Test Condition	Spec.
1. Shock Proof	Drop naturally 3 times on a concrete plate from 100cm height.	

2. Vibration Proof	Apply vibration at the frequency varying uniformary between limits of 10 to 55Hz, an amplitude of 1.5mm, in each 3 mutually perpendicular direction. After 5 cycles testing in each direction, meanure the electrical performance.	Meet ■ Electronic characteristics 1~ 7.
3. Resistance to Soldering Heat	Dip the termination in the 260 ± 5 °C solder to a point 2mm from the root of termination for 10 ± 1 s, measure the elctrical performance at 24 ± 2 hrs past in the room condition.	No existence of mechanical damage and remarkable change.
4. Tensile Strength of Termination	Apply a force in the drawn out direction gradually up to 10N, and keep it as it is for 10s.	
5. Solderability	Dip the termination in the 230 ± 5 °C solder to a point 2mm from the root of termination for 5 ± 1 s.	More than 95% of the terminal surface of the termination shall be covered with fresh solder.
6. Hight Temperiture	After 85 ± 2 °C 96hrs testing, measure the elctrical performance at 24 ± 2 hrs past in the room condition.	
7. Low Temperiture	After -25 ± 2 °C 96hrs testing, measure the elctrical performance at 24 ± 2 hrs past in the room condition.	Meet ■ Electronic characteristics 1~ 7.
8. Humidity Proof	40 ± 2 °C, 90~95 % RH, after 96hrs testing, measure the elctrical performance at 24 ± 2 hrs past in the room condition.	No existence of mechanical damage and remarkable change.
9. Heat Shock Proof	-25 °C(30min) \rightarrow (2~3min) \rightarrow 80 °C(30min) is 1 cycle. After 5 cycles, measure the elctrical performance at 24 ± 2 hrs past in the room condition.	
10. Temperiture Stability	Between -20 °C and $+80$ °C.	Change from $+25$ °C of ceter frequency shall be within 1.5kHz.