# **CUI** DEVICES

date 07/07/2021

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MODEL: CPT-12123-81-SMT-TR | DESCRIPTION: PIEZO BUZZER TRANSDUCER

#### **FEATURES**

- 25 Vp-p max operating voltage
- 81 dB





### SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage	VP-P OV		5		Vp-p
operating voltage				25	Vp-p
current consumption	at 5 Vp-p, 4,000 Hz, ½ duty square wave	·		5	mA
rated frequency			4,000		Hz
sound pressure level	at 10 cm, 5 Vp-p, 4,000 Hz, square wave	81			dB
electrostatic capacitance	at 120 Hz / 1 V	11,200	16,000	20,800	pF
dimensions	12 x 12 x 3.0				mm
weight				0.5	g
material	LCP				
terminal	surface mount (tin plating)				
operating temperature		-40		120	°C
storage temperature		-40		120	°C
washable	no				
RoHS	yes				

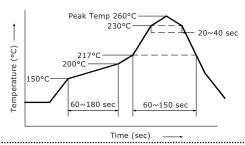
Notes: 1. All specifications measured at  $5\sim35^{\circ}$ C, humidity at  $45\sim85\%$ , under  $86\sim106$  kPa pressure, unless otherwise noted.

#### **SOLDERABILITY**

Note:

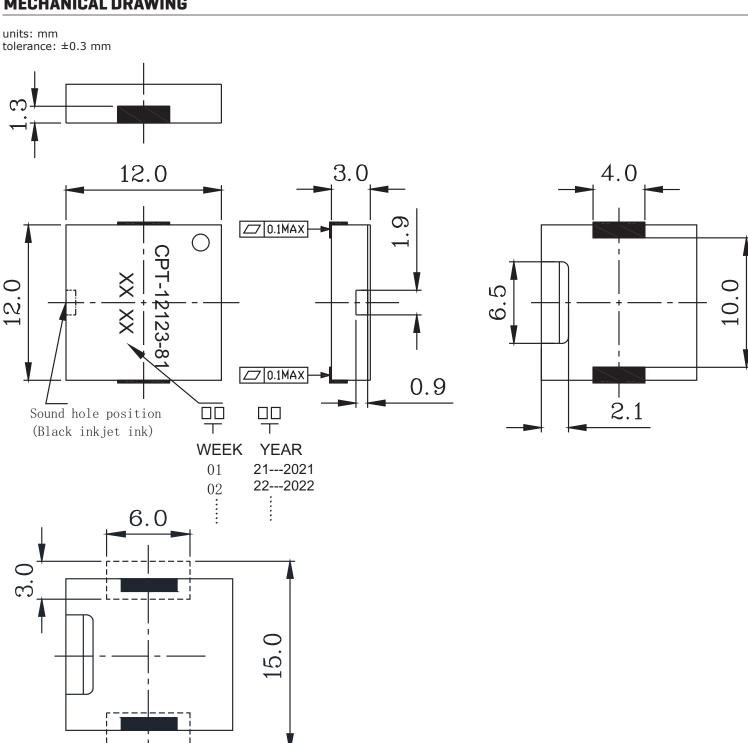
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <40%			25	°C
reflow soldering <sup>2</sup>	see recommended reflow soldering profile			260	°C
drying conditions <sup>3</sup>	bake at 40°C for 24 hours				

It is recommended to reflow solder within 48 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.</li>
When out of packaging for more than 48 hours.

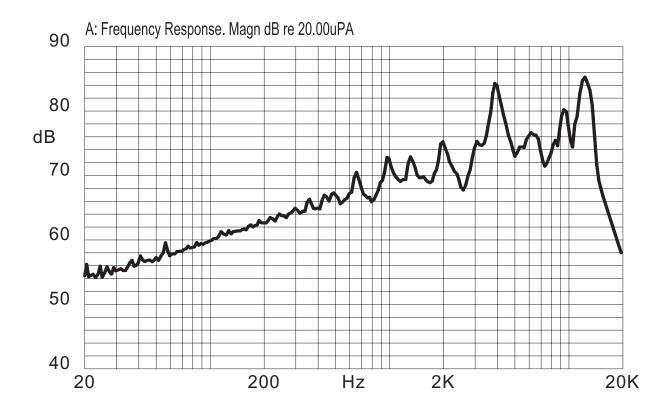


Recommended PCB Layout Top View

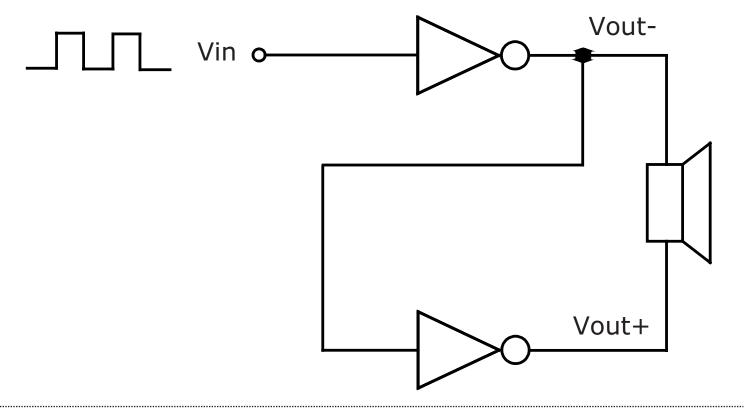
## **MECHANICAL DRAWING**



## **FREQUENCY RESPONSE CURVE**



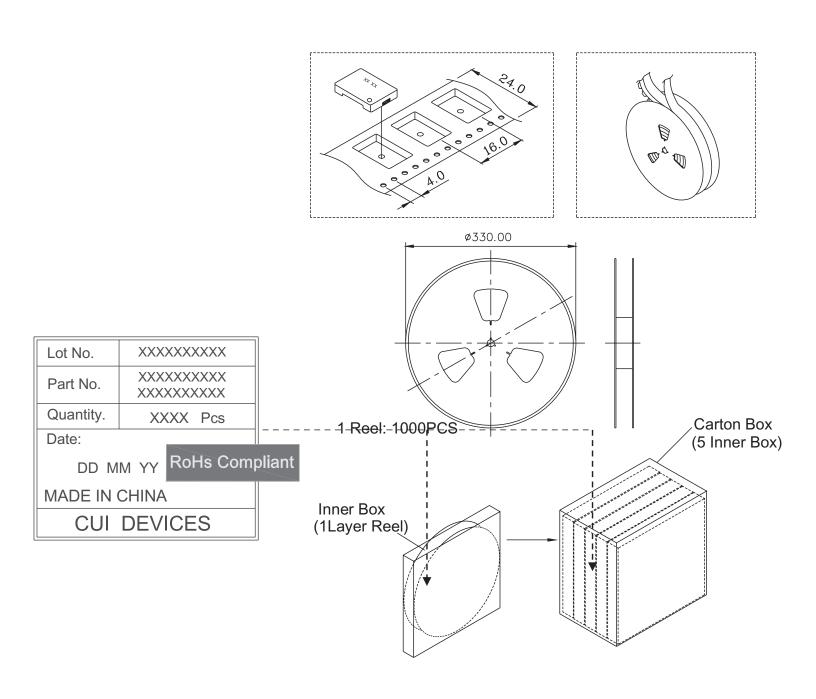
## **APPLICATION CIRCUIT**



### **PACKAGING**

units: mm

Inner Carton Size: 340 x 340 x 35 mm Carton Size: 350 x 355 x 195 mm Inner Carton QTY: 1,000 pcs per reel Carton QTY: 5,000 pcs per carton



Additional Resources: Product Page

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#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	07/07/2021

The revision history provided is for informational purposes only and is believed to be accurate.

## **CUI** DEVICES

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