

**MODEL:** CPE-503 | **DESCRIPTION:** PIEZO BUZZER TRANSDUCER

**FEATURES**

- feedback pin
- 12 Vdc rating
- driving circuit
- vertical orientation through hole mount
- wide operating temperature range [-30-115 °C]

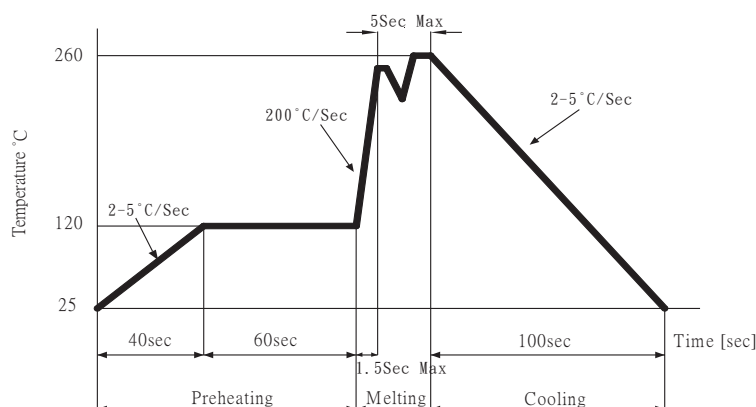

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated voltage			12		Vdc
operating voltage		3		28	Vdc
current consumption	at rated voltage			7	mA
rated frequency		2,700	3,200	3,700	Hz
sound pressure level	at 30 cm, rated voltage	72			dB
dimensions	25.0 x 24.0 x 10.0				mm
weight				3.7	g
material	PC+10% glass (black)				
terminal	pin type [Au plating]				
operating temperature		-30		115	°C
storage temperature		-40		125	°C
RoHS	yes				

Notes: 1. All specifications measured at 5-35°C, humidity at 45-85%, under 86-106kPa pressure, unless otherwise noted.

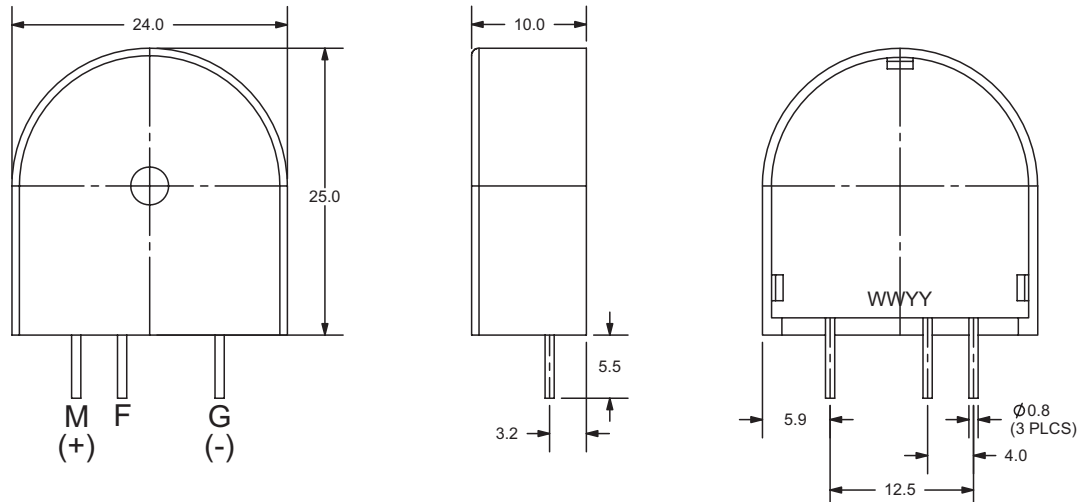
**SOLDERABILITY**

parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 5 seconds	330		380	°C
wave soldering	see wave soldering profile			260	°C



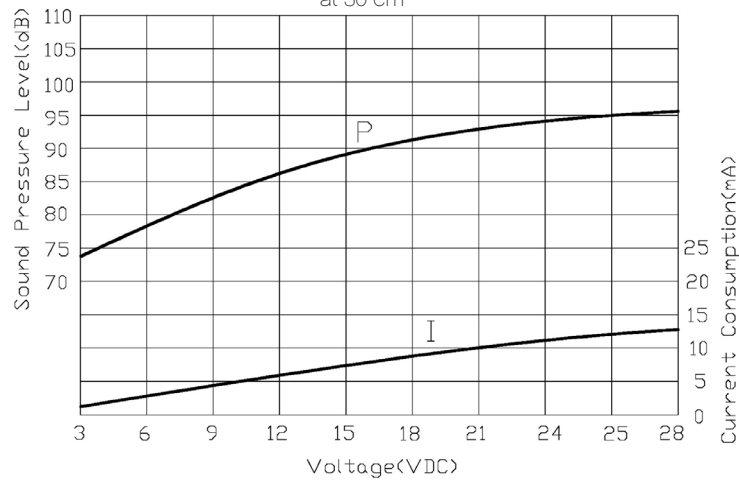
## MECHANICAL DRAWING

units: mm  
tolerance: ±0.5 mm

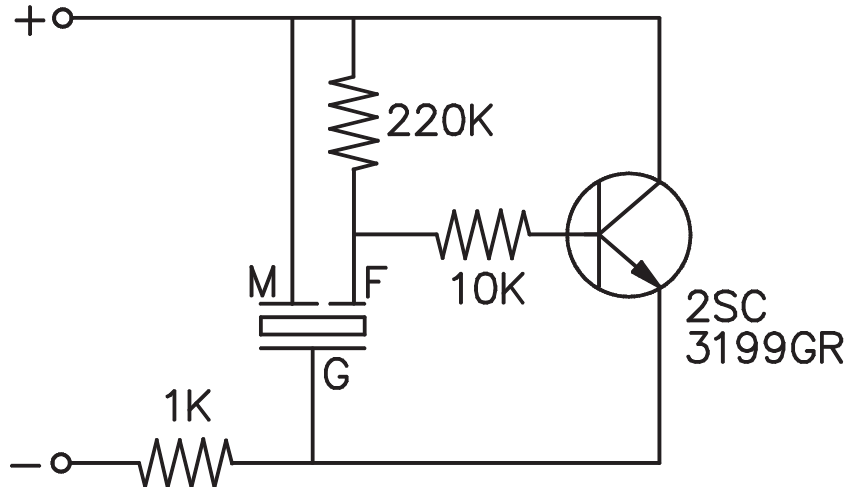


## PERFORMANCE CURVES

P: Voltage vs. Sound Pressure Level  
I: Voltage vs. Current Consumption  
at 30 cm



## DRIVING CIRCUIT



Notes: 1. The current consumption and the sound pressure level are measured by using the recommend driving circuit shown above.

## REVISION HISTORY

rev.	description	date
1.0	initial release	11/12/2007
1.01	applied new spec template	01/07/2016
1.02	brand update	11/20/2019
1.03	logo, datasheet style update	08/05/2022

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



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