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MODEL: CMS-2812-078T | DESCRIPTION: SPEAKER

FEATURES

- 8 ohm
- 0.78 W
- through hole





SPECIFICATIONS

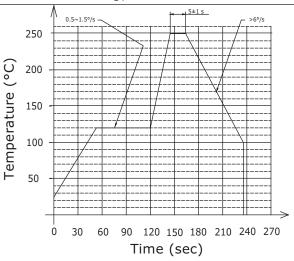
parameter	conditions/description	min	typ	max	units
input power	max power: 1 minute on, 2 minutes off, 10 cycles		0.78	1.5	W
impedance	at 1.0 kHz, 1 V	6.8	8	9.2	Ω
resonant frequency (Fo)	at 1 V	400	500	600	Hz
frequency response		Fo		20,000	Hz
sound pressure level	at 0.5 kHz, 0.78 W, 50 cm at 1.0 kHz, 0.78 W, 50 cm at 2.0 kHz, 0.78 W, 50 cm at 3.0 kHz, 0.78 W, 50 cm	78 78 77 79	81 81 80 82	84 84 83 85	dB dB dB dB
distortion	at 1.0 kHz, 3.3 V			11	%
buzz, rattle, etc.	must be normal at sine wave between 300 Hz ~ 5 kHz			2.5	V
polarity	cone moves forward w/ positive dc current to "+" terminal				
dimensions	Ø28 x 12.5				mm
magnet	Nd-Fe-B				
housing material	MPPO				
cone material	PEI				
terminal	pins				
weight			8.8		g
operating temperature		-40		85	°C
storage temperature		-40		85	°C
RoHS	yes				

Notes:

 $1.\,All\ specifications\ measured\ at\ 15\text{--}35^\circ\text{C},\ humidity\ at\ 45\text{--}85\%,\ under\ 86\text{--}106\ kPa\ pressure,\ unless\ otherwise\ noted.$

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for 3~5 seconds	370	380	390	°C
wave soldering	see recommended wave soldering profile			250	°C



MECHANICAL DRAWING

units: mm tolerance: ±0.3 mm

12.5±0.2

10.2

Pads

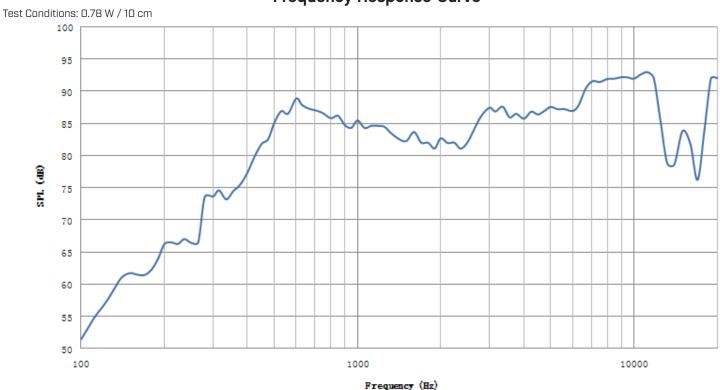
Hole

Recommended PCB Layout

Top View

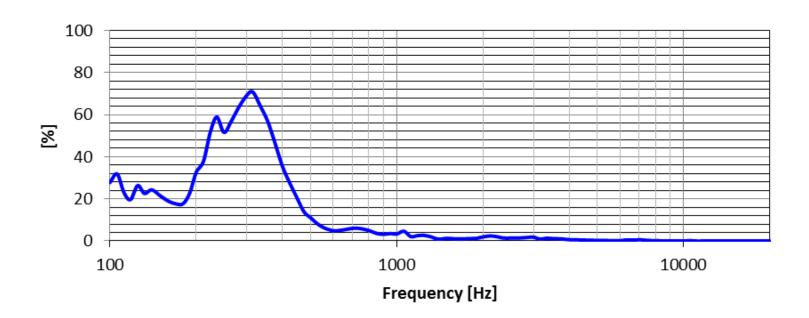
RESPONSE CURVES





Total Harmonic Distortion Curve

Test Conditions: 0.78 W / 10 cm



Additional Resources: Product Page

CUI DEVICES | MODEL: CMS-2812-078T | DESCRIPTION: SPEAKER

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REVISION HISTORY

rev.	description	date	
1.0	initial release	12/07/2023	

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



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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