

**date** 03/12/2015

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MODEL: CDS-13138-SMT | DESCRIPTION: SPEAKER

#### **FEATURES**

- SMT (surface mount) speaker
- reflow solder capable
- wide operating temp range
- compact size





#### **SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
input power	maximum power: IEC-60268-5, filter 60s on/120s off, 10 cycles at room temp		0.7	1.0	W
impedance	at 1.5 kHz, 1.0 V	6.8	8	9.2	Ω
resonant frequency (Fo)	at 1.0 V	680	850	1,020	Hz
frequency response	output SPL ±10 dB	Fo		20,000	Hz
sound pressure level	at 0.7 W, 0.1 m ave, at 1.0, 1.6, 2.0, 3.2 kHz at 1.0 W, 1.0 m ave, at 1.0, 1.6, 2.0, 3.2 kHz	84 67	87 70	90 73	dB dB
distortion	at 2.0 kHz, 0.7 W			5	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 20 kHz		2.37		V
dimensions	13 x 13 x 4.0				mm
magnet	Sm <sub>2</sub> Co <sub>17</sub> , Ø6.0 x 1.0 mm				
material	LCP				
cone material	mylar				
terminal	surface mount, Au plating				
weight			1.1		g
operating temperature		-40		85	°C
storage temperature		-40		85	°C
washable	yes				
RoHS	2011/65/EU				

Notes:

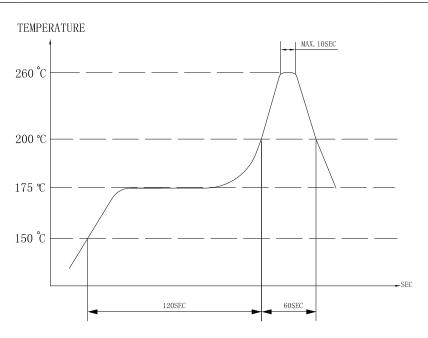
<sup>1.</sup> All specifications measured at  $5\sim35^{\circ}$ C, humidity at  $45\sim85\%$ , under  $86\sim106$ kPa pressure, unless otherwise noted. 2. Add suffix "-TR" to the model for tape and reel packaging.

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CUI Inc | MODEL: CDS-13138-SMT | DESCRIPTION: SPEAKER

# **SOLDERABILITY**

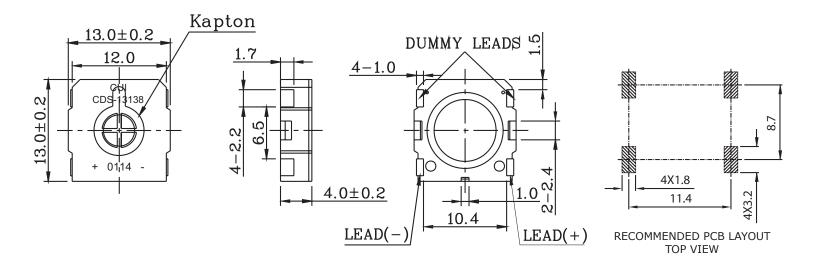
parameter	conditions/description	min	typ	max	units
reflow soldering	see reflow profile			260	°C



### **MECHANICAL DRAWING**

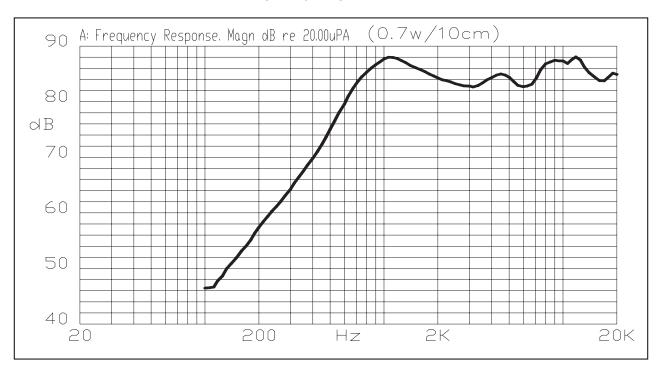
units: mm

tolerance: ±0.25 mm

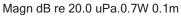


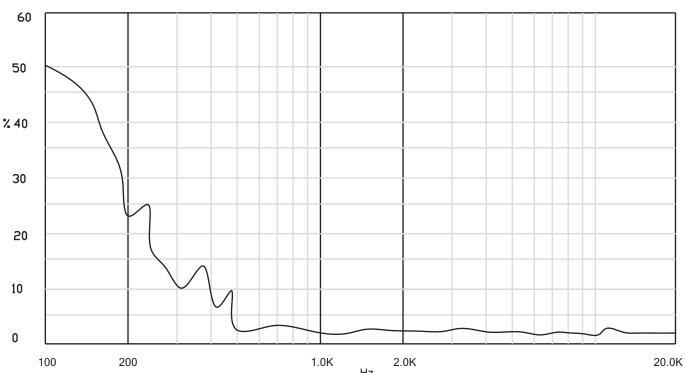
# **RESPONSE CURVES**

## **Frequency Response Curve**



### **Total Harmonic Distortion Curve**





#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	03/12/2015

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



**Headquarters** 20050 SW 112th Ave. Tualatin, OR 97062 **800.275.4899** 

Fax 503.612.2383 **cui**.com techsupport@cui.com

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

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.