

**MODEL:** CMS-29958F | **DESCRIPTION:** SPEAKER**FEATURES**

- miniature speaker
- 650 Hz resonant frequency
- ferrite magnet

**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		0.1	0.2	W
impedance	at 1.0 kHz, 1.0 V	6.8	8	9.2	Ω
resonant frequency (Fo)	at 1.0 V	520	650	780	Hz
frequency response	output SPL ± 10 dB	Fo		4,000	Hz
sound pressure level	at 0.1 W, 0.1 m ave, at 1.0, 1.2, 1.5, 2.0 kHz	85	88	91	dB
	at 1 W, 1 m ave, at 1.0, 1.2, 1.5, 2.0 kHz	75	78	81	dB
distortion	at 1.0 kHz, 0.1 W			10	%
buzz, rattle, etc.	must be normal at sine wave between Fo ~ 4,000 kHz		0.89		V
dimensions	$\varnothing 29.0 \times 9.5$				mm
magnet	ferrite ($\varnothing 16.0 \times 7 \times 5$ mm)				
material	ABS UL-94 1/16" HB				
cone material	PET				
terminal	solder pads				
weight			8.0		g
operating temperature		-20		55	$^{\circ}\text{C}$
storage temperature		-20		55	$^{\circ}\text{C}$
RoHS	yes				

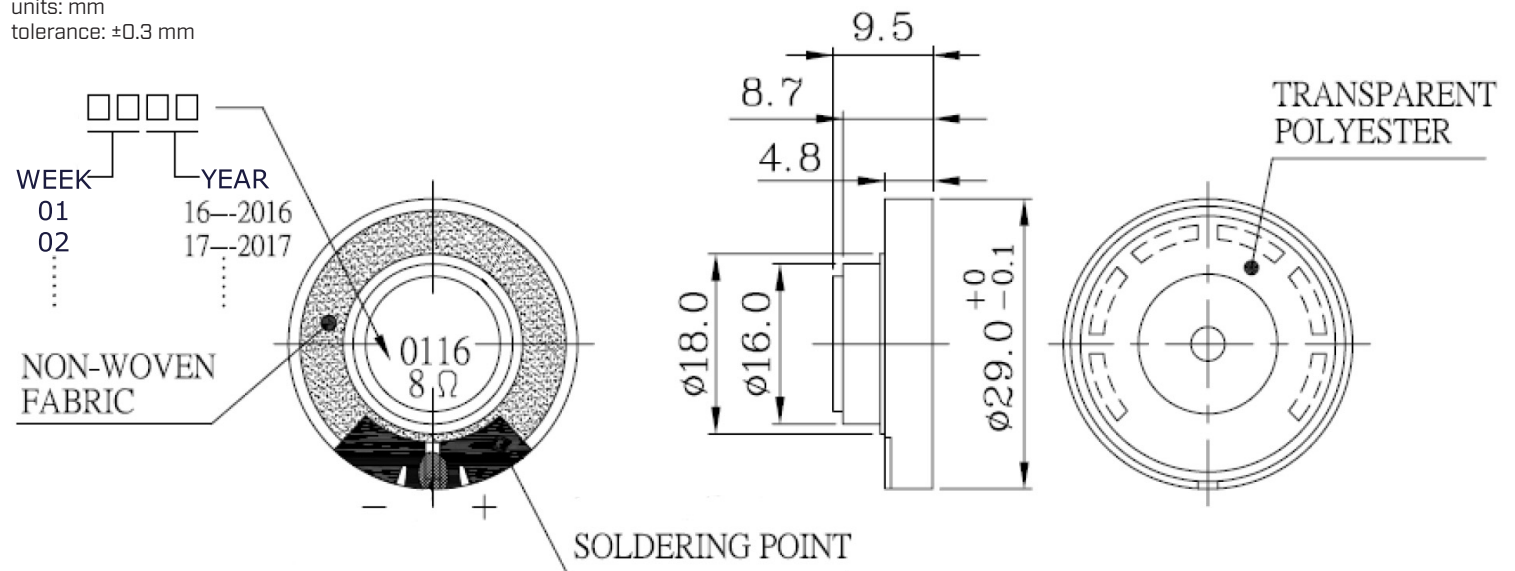
Notes: 1. All specifications measured at 5-35 $^{\circ}\text{C}$, humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for 3 $\pm$ 1 seconds	360	370	380	$^{\circ}\text{C}$

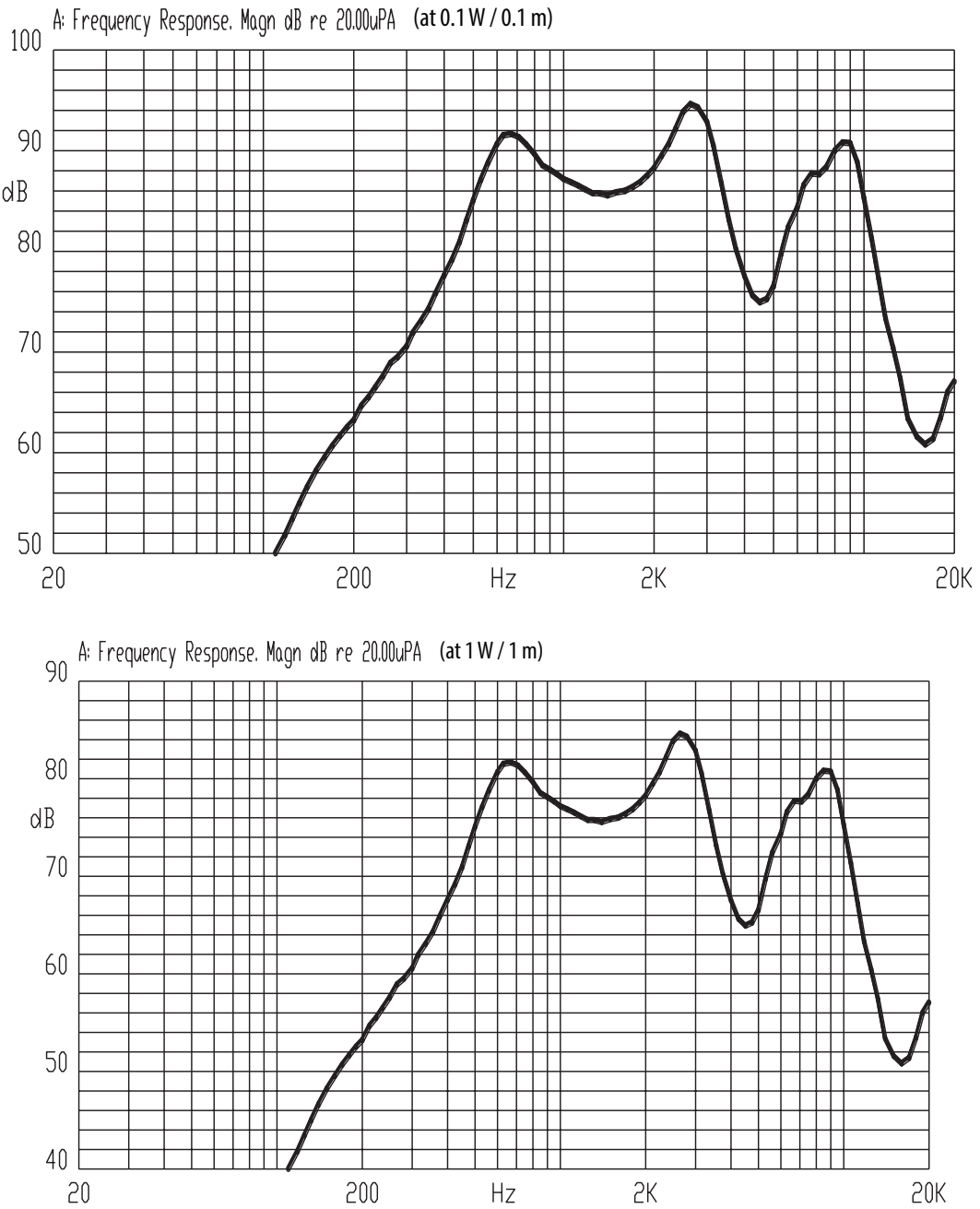
MECHANICAL DRAWING

units: mm
tolerance: ± 0.3 mm



RESPONSE CURVES

Frequency Response Curve



THIELE-SMALL PARAMETERS

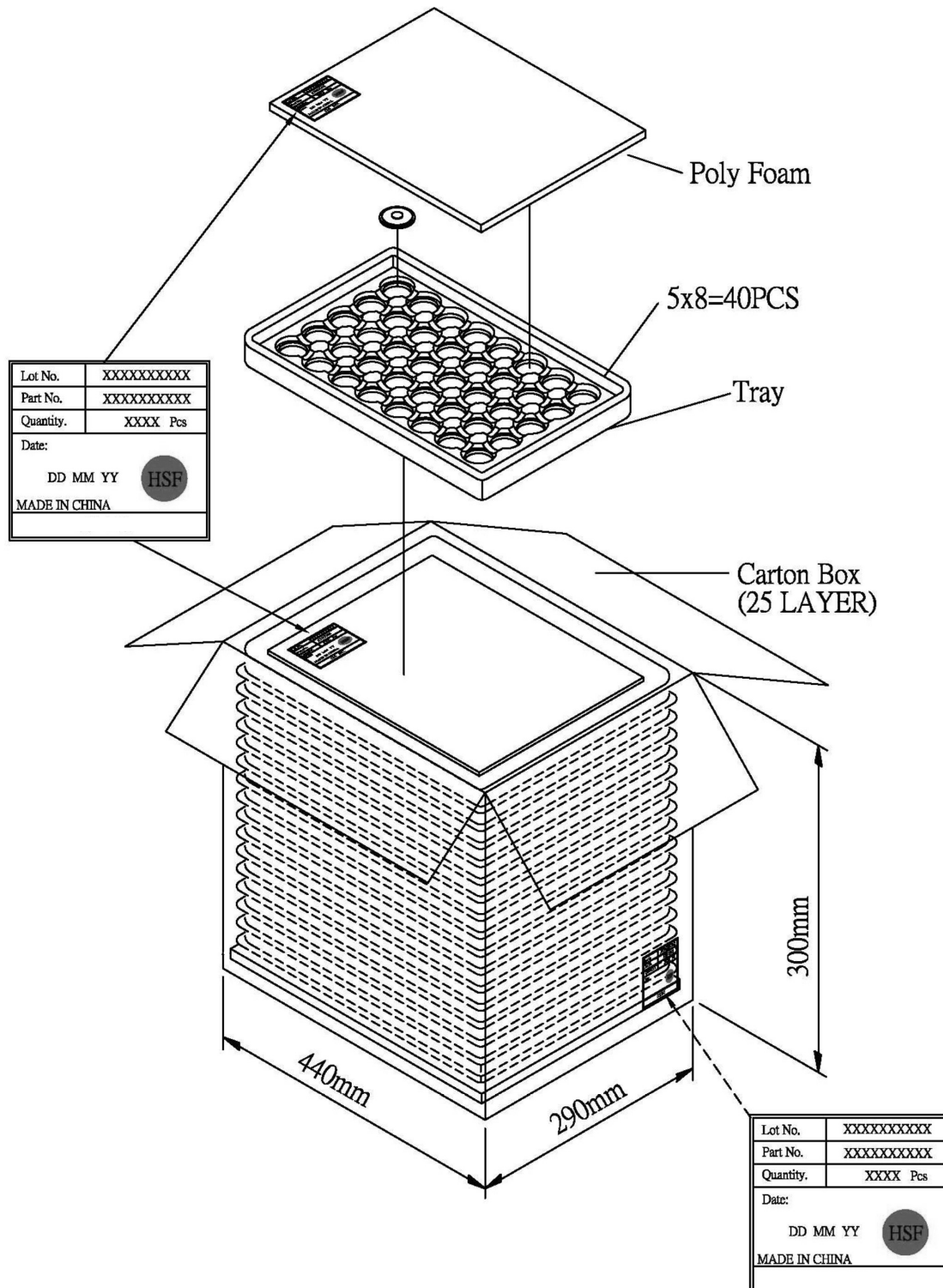
parameter	conditions/description	typ
Mechanical Q Factor	Qms	1.1322
Electrical Q Factor	Qes	5.6354
Total Q Factor	Qts	0.9428
Compliance Equivalent Volume	Vas	0.029

Notes: 2. Results represent typical performance in Free Air conditions.

PACKAGING

units: mm

Tray Size: 420 x 270 x 22 mm
Carton Size: 440 x 290 x 300 mm
Tray QTY: 40 pcs per tray
Carton QTY: 1,000 pcs per carton



REVISION HISTORY

rev.	description	date
1.0	initial release	06/24/2016
1.01	brand update	01/20/2020
1.02	logo, datasheet style update	08/05/2022
1.03	CUI Devices rebranded to Same Sky	09/11/2024
1.04	added Thiele-Small Parameters	02/07/2025

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



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