

Excellent Integrated System Limited

Stocking Distributor

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CUI Inc. CDMG16008-03

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of CUI Inc.: Excellent Integrated System Limited

Datasheet of CDMG16008-03 - SPEAKER 8 OHM .3W 16MM ROUND

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





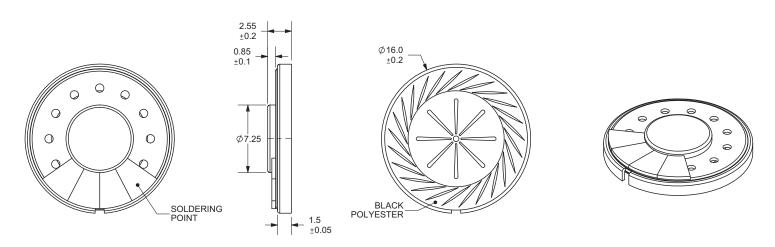
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PART NUMBER: CDMG16008-03 DESCRIPTION: LOW PROFILE SPEAKER

SPECIFICATIONS

parameter	conditions/description	min	nom	max	units
input power	max. power: IEC-60268-5, filter 60 s on / 120 s off, 10 cycles at room temp		0.3	0.5	W
impedance	at 1 kHz, 1 V	6.8	8	9.2	Ω
resonant frequency	at 1 V	480	600	720	Hz
sound pressure level	0.3 W, 10 cm ave. at 1, 1.2, 1.5, 2 kHz 1 W, 1 m ave. at 1, 1.2, 1.5, 2 kHz	79 66	82 69	85 72	dB dB
response		600		20,000	Hz
distortion	at 1 kHz, 0.3 W			10	%
buzz, rattle, etc.	must be normal at sine wave 1.55 V				
operating temperature		-20		55	°C
dimenstions	ø16 x 2.55 mm				
weight			1.5		g
material	metal				
RoHS	yes				

APPEARANCE DRAWING

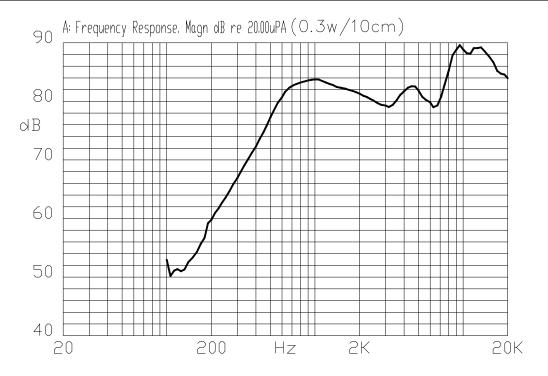


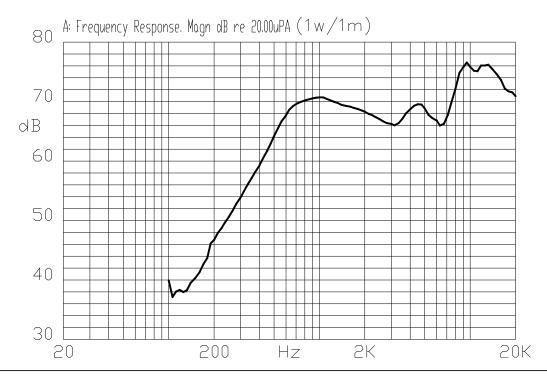


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PART NUMBER: CDMG16008-03 **DESCRIPTION: LOW PROFILE SPEAKER**

FREQUENCY RESPONSE







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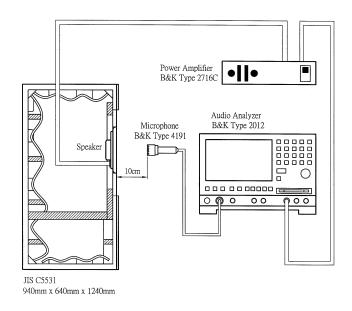
For more information, please visit the product page.



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PART NUMBER: CDMG16008-03 DESCRIPTION: LOW PROFILE SPEAKER

MEASUREMENT METHOD



MECHANICAL CHARACTERISTICS

item	test condition	evaluation standard	
PCB wire pull strength	The pull force will be applied to double lead wire: horizontal 3.0 N (0.306 kg) for 30 seconds	No damage or cutting off	
vibration test	The buzzer should be measured after a vibration amplitude of 1.5 mm with $10\sim55$ Hz band of vibration frequency to each of the 3 perpendicular directions for 2 hours.	No obstacle will be harmful to norm operation; damages, cracks, rust, an distortions. Should not be audible	
drop test	The buzzer without packaging is subjected to 10 drops on each axis from the height of 75 cm onto a 40 mm thick wooden board.	at 1.55 V sine wave between Fo ~ 20KHz.	

ENVIRONMENT TEST

item	test condition	evaluation standard
high temperature test	After being placed in a chamber at +55°C for 96 hours.	
low temperature test	After being placed in a chamber at -20°C for 96 hours.	The speaker will be measured after being placed at +25°C for 6 hours. No obstacle will be harmful to normal operation; damages, cracks, rust, and distortions. Should not be audible at 1.55 V sine wave between Fo ~ 20KHz. The Fo should meet initial measurements. SPL should be within ±3dB compared to the initial measurements.
humidity test	After being placed in a chamber at $\pm 40^{\circ}$ C and 90 $\pm 5\%$ RH for 240 hours.	
temperature cycle test	The part will be subjected to 10 cycles. One cycle will consist of: +55°C -20°C -20°C -20rc 6hrs 6hrs	



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PART NUMBER: CDMG16008-03

DESCRIPTION: LOW PROFILE SPEAKER

RECOMMENDED TEMPERATURE PROFILE FOR HAND SOLDERING

370±10°C / 3±1 Sec

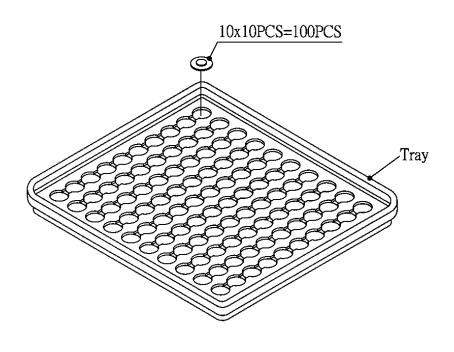
RELIABILITY TEST

item	test condition	evaluation standard
operating (life test)	1. Load test: The part will be subjected to 24 hours of continuous white noise at 0.3 W at room temperature.	The speaker will be measured after being placed at +25°C for 6 hours. No obstacle will be harmful to normal operation; damages, cracks, rust, and distortions. Should not be audible at 1.55 V sine wave between Fo ~ 20KHz. The Fo should meet initial measurements. SPL should be within ±3dB compared to the initial measurements.

TEST CONDITIONS

standard test conditions	a) Temperature: +5 ~ +35°C	b) Humidity: 45 ~ 85%	c) Pressure: 860 ~ 1060 mbar
judgement test conditions	a) Temperature: +25 ±2°C	b) Humidity: 60 ~ 70%	c) Pressure: 860 ~ 1060 mbar

PACKAGING



Tray