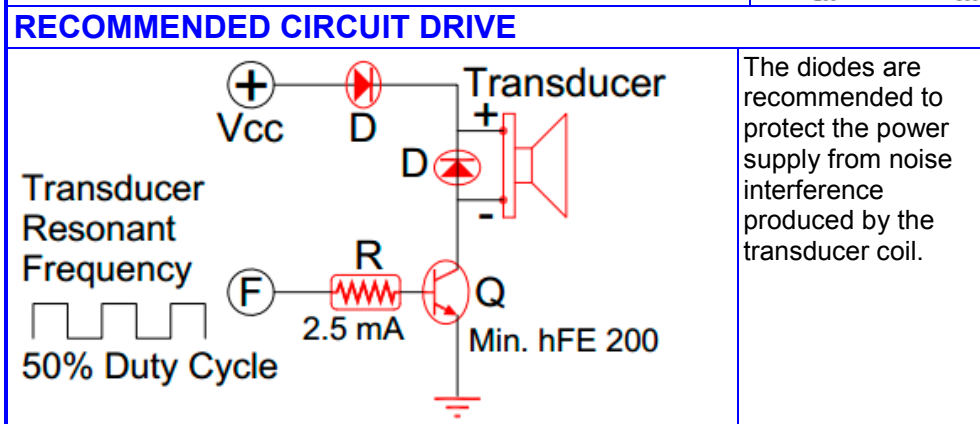
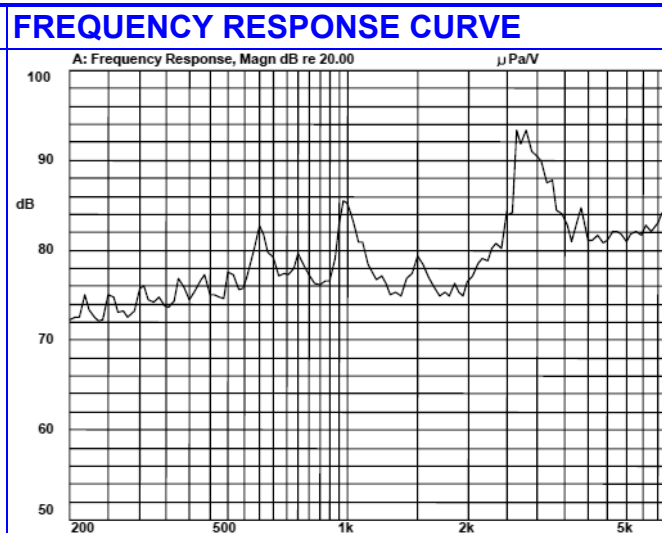
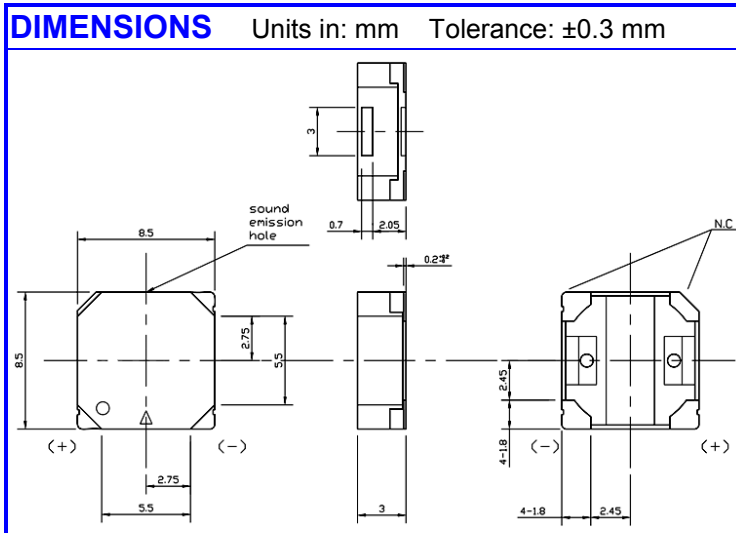




## PRODUCT INFORMATION

<b>PART #:</b>	<b>CEET085L030-16-2545-27MHR</b>				<b>Revision:</b> 0-2015
	<b>Electromagnetic Sound Transducer</b>				
<b>DESCRIPTION</b>			<b>FEATURES</b>		
Challenge Electronics Electromagnetic Transducer; 8.5 mm Length; L style case (side port); 3.0 mm High; 2.5 to 4.5 Vo-p Operating Voltage; 2700 Hz. Resonant Frequency; minimum Sound output of 85 dB(A) min at 10 cm at Rated Voltage; SMD Termination, High/Extended Temp, RoHS, Lead Free, Reach Compliance			<ul style="list-style-type: none"> <li>• RoHS, Lead Free Compliant</li> <li>• REACH Compliant</li> <li>• ISO 9001 Certified</li> </ul>		
<b>SPECIFICATIONS</b>					
Operating Voltage	2.5-4.5 Vo-p	Nominal Rated Voltage	3.6 Vo-p	Resonant Frequency	2,700 Hz.
Sound Pressure Level	Minimum 85dB(A), at: 10 cm, Resonant Frequency, Nominal rated Voltage, Square Wave 50% Duty Cycle				
Operating Current	Maximum 80 mA, at: Resonant Frequency, Nominal rated Voltage, Square Wave				
Operating Temperature	-40°C to + 90°C	Storage Temperature	-40°C to + 90°C	Coil Impedance	16 ± 3 Ω
Material	Housing	Nylon #46		Sound Port Direction	Side
	Diaphragm	Ni Alloy Disc		Encapsulation	No
	Termination	SMD Gold-plated brass contacts			
Physical Dimensions	Length (L)	8.5 mm ± 0.3 mm	Width (W)	8.5 mm ± 0.3 mm	Height (H) 3.0 mm ± 0.3 mm
Approximate Weight	0.4 grams	Removable Washing Label	No	Compliance	RoHS, Lead Free and REACH
Packaging					
<b>RELIABILITY</b>					
Thermal Operating Temperature Test	96 hours continuous operation at Rated Voltage, at Maximum Rated Operating Temperature *				
	96 hours continuous operation at Rated Voltage, at Minimum Rated Operating Temperature *				
Thermal Storage Temperature Test	96 hours storage at Maximum Rated Storage Temperatures *				
	96 hours storage at Minimum Rated Storage Temperatures *				
Thermal Shock Test	5 cycles of Minimum and Maximum Operating Temperature Each cycle shall be set per diagram and is 3 hours long *				
Humidity Test	72 Hours at +40°C±2°C, 95% RH *				
Insulation Test	A minimum of 10 MΩ, measured with 100 Vdc Insulation Resistance Meter, between the Electrical Terminals and the Transducer Case				
Vibration Test	1 Hour at 1.5 mm with 55 Hz. and 150 Hz. vibration frequency for 20 minutes each of 3 perpendicular directions.*				
Termination Strength	Maximum of 9.8 N (1.0 Kg) load pull test, applied to each terminal in axial direction for 10 seconds				
Drop Test	Dropped naturally from 50 cm height onto concrete floor 10 times *				
* Reliability Test Performance	Parts should conform to original performance within ±3dB, after 3 hours of recovery period				
Operation Life Test	Continuous	Two hundred fifty (250) hours of continuous operation, at Rated Voltage, each at Minimum & Maximum Rated Operating Temperatures			
	Intermittent	One thousand (1,000) hours of: 1 minute ON 4 minutes OFF cycle, at Room Temperature, and Maximum Rated Voltage			
Warranty	For a period of one (1) year from date of shipping under normal operations conditions This warranty does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to repair				



**STORAGE**

1. Shelf life: Twelve (12) months when devices are to be stored in factory supplied unopened ESD moisture sensitive bag under maximum environmental conditions of 30°C, 70% R.H.
2. Exposure: Devices should not be exposed to high humidity high temperature environment. MSL (moisture sensitivity level) Class 2

**SOLDERING INSTRUCTIONS**

This part can withstand the given temperature condition for two (2) passes.

Stage	Temperature Profile	Maximum Time
Pre-heat	150~200°C	120 sec
Solder Melt	Above 230°C	90 sec
Peak	260°C Maximum	30 sec
Cool Down		90 sec

