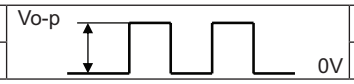
MODEL: CMT-8503-90-SMT-TR | DESCRIPTION: MAGNETIC BUZZER TRANSDUCER

FEATURES

- surface mount
- 90 dB
- magnetic
- externally driven

RoHS

SPECIFICATIONS

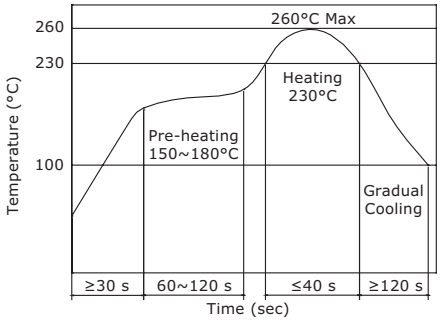
parameter	conditions/description	min	typ	max	units
rated voltage			3.6		Vo-p
operating voltage		2.5		4.5	Vo-p
current consumption	at rated voltage, 3,100 Hz, ½ duty square wave			90	mA
rated frequency			3,100		Hz
sound pressure level	at 10 cm, rated voltage, 3,100 Hz, ½ duty square wave	90			dB
coil resistance		17	20	23	Ω
dimensions	8.5 x 8.5 x 3.0				mm
weight			0.6		g
material	LCP				
terminal	surface mount (brass with gold plating)				
operating temperature		-40		85	°C
storage temperature		-40		85	°C
RoHS	yes				

Notes: 1. All specifications measured at 25±3°C, humidity at 60~70%, under 86~106 kPa pressure, unless otherwise noted.

SOLDERABILITY

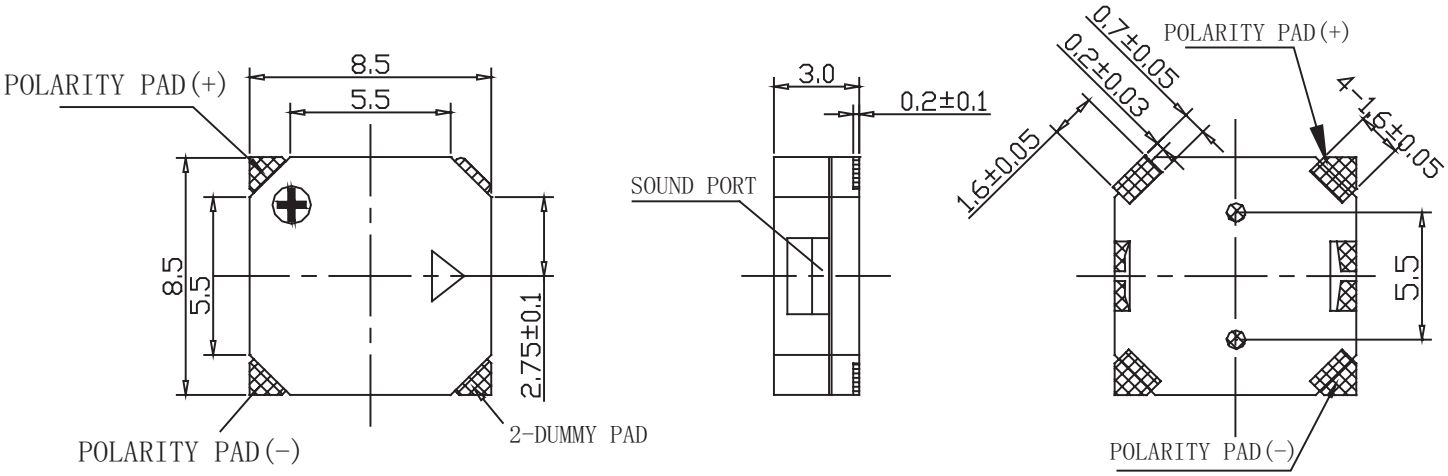
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <60%			25	°C
reflow soldering[2]	see recommended reflow soldering profile			260	°C
drying conditions[3]	bake at 40°C for 24 hours				

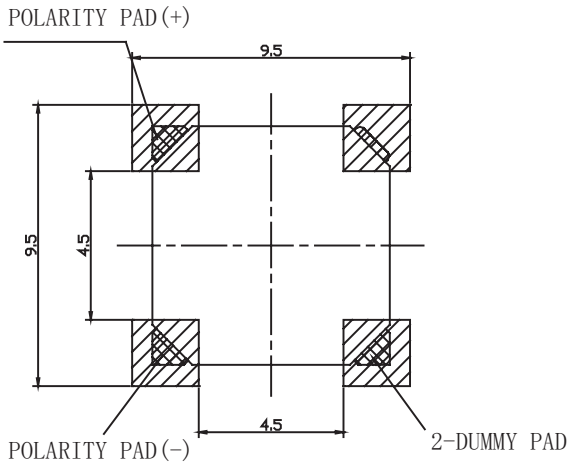
Note: 2. It is recommended to reflow solder within 48 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
3. When out of packaging for more than 48 hours.



MECHANICAL DRAWING

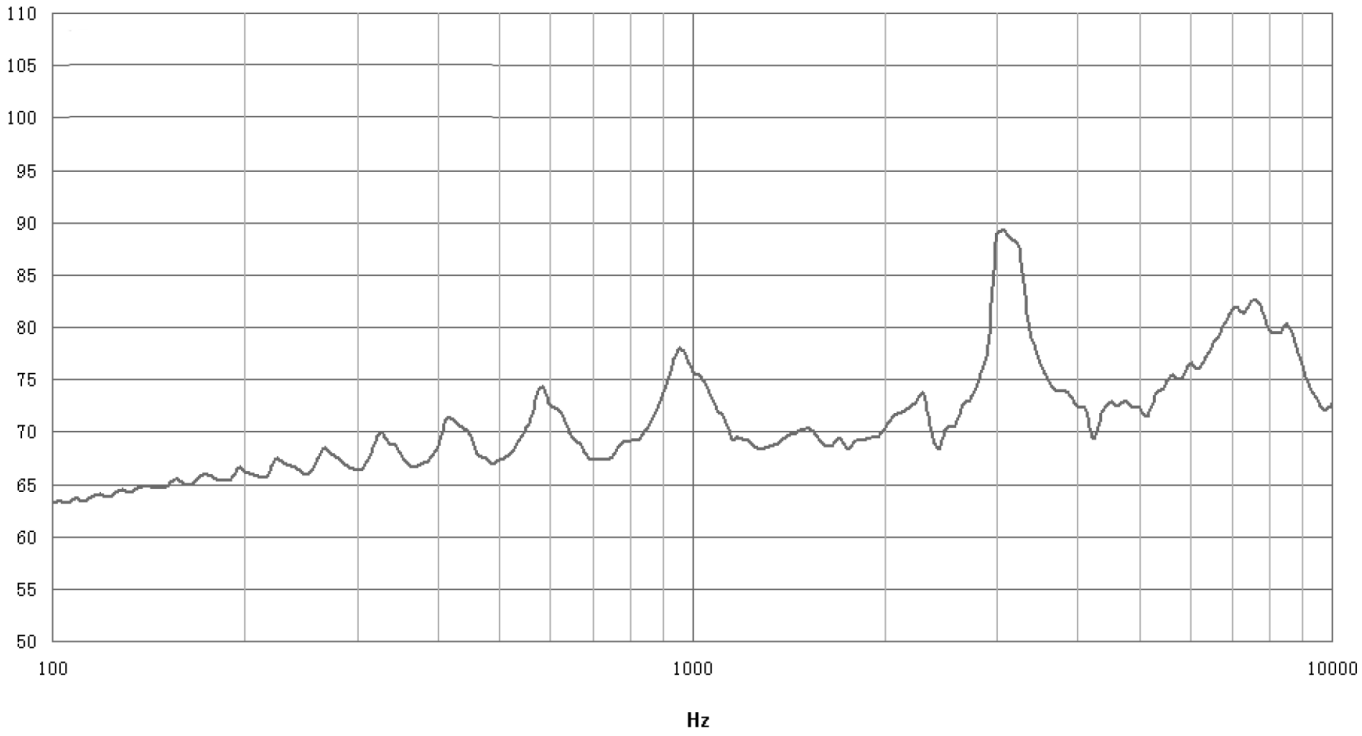
units: mm
tolerance: ±0.5 mm



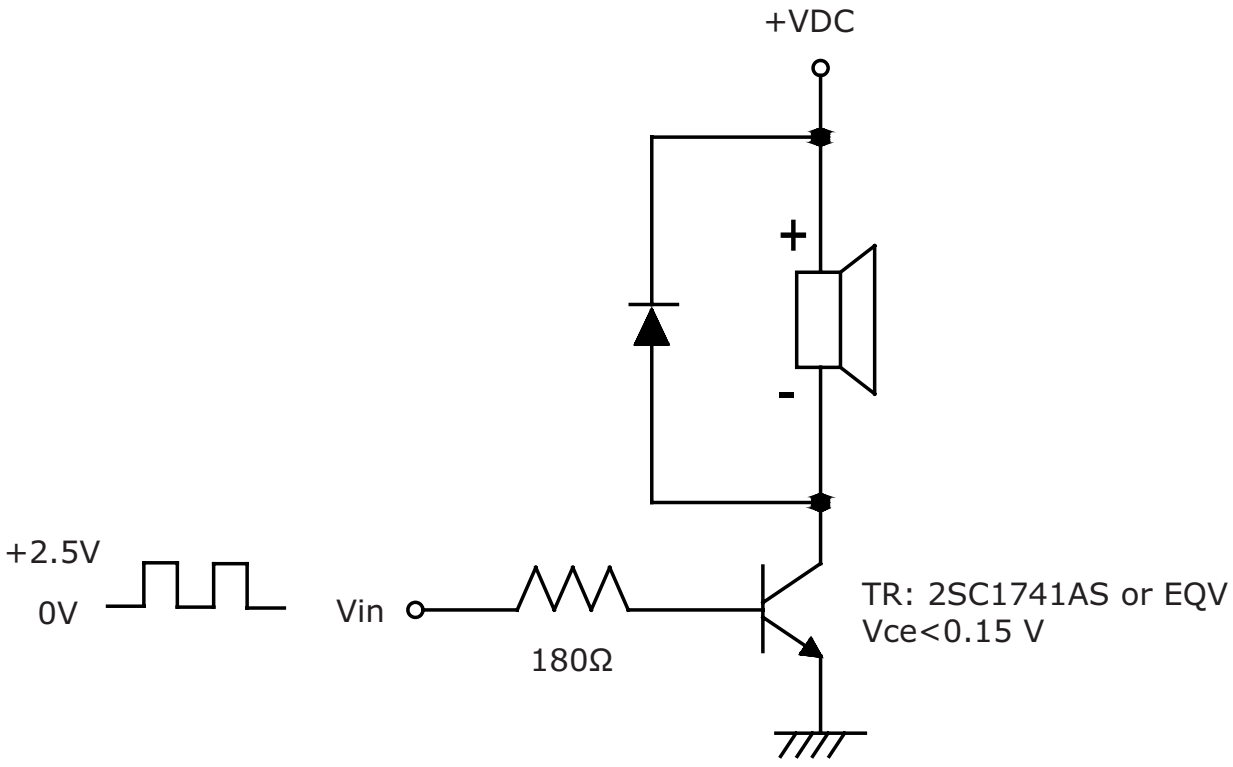


Recommended PCB Layout
Top View

FREQUENCY RESPONSE CURVE



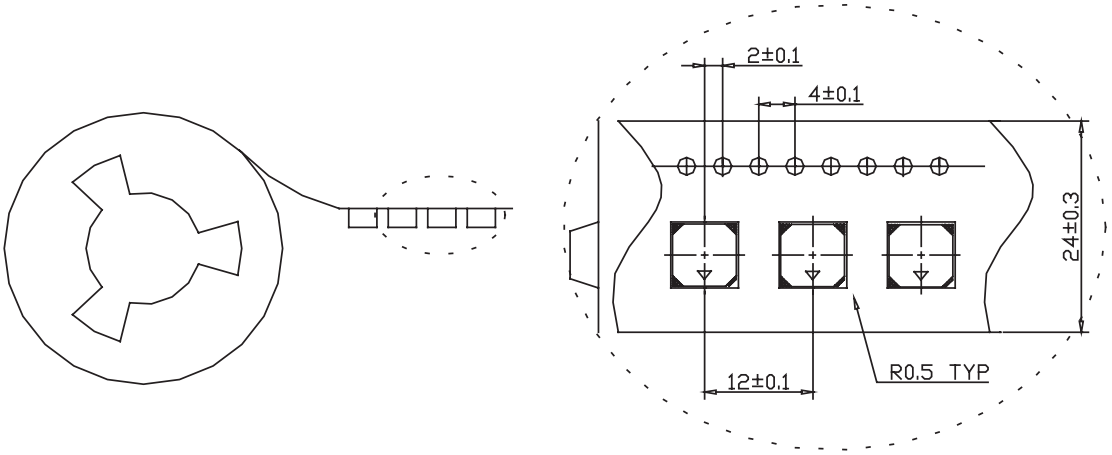
APPLICATION CIRCUIT

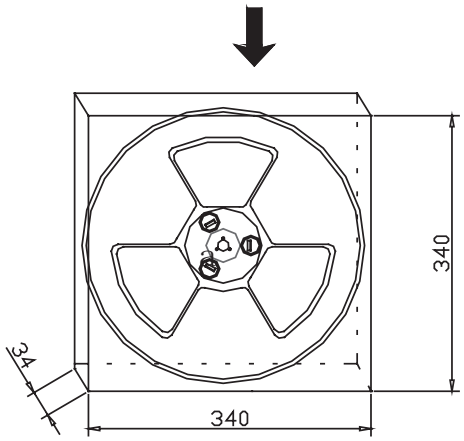


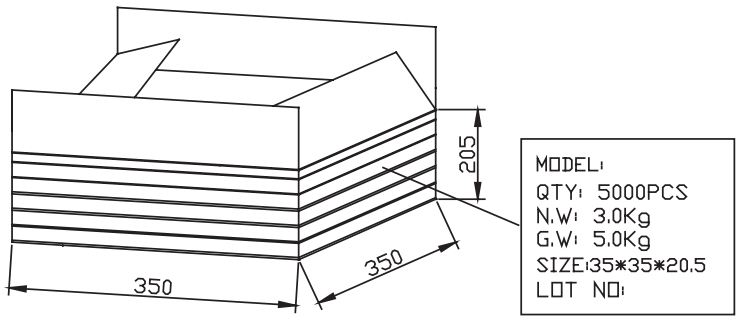
PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 1,000 pcs per reel
Carton Size: 350 x 350 x 205 mm
Carton QTY: 5,000 pcs per carton







REVISION HISTORY

rev.	description	date
1.0	initial release	07/15/2019
1.01	brand update	12/18/2019
1.02	logo, datasheet style update	08/05/2022

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

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