

MODEL: CMI-5247TF-K | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

FEATURES

- unidirectional
- 9.7 mm diameter
- solder pads



SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
directivity	unidirectional				
sensitivity [S]	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-50	-47	-44	dB
standard operating voltage [Vs]			1.5		Vdc
max operating voltage				10	Vdc
output impedance [Zout]	f = 1 kHz, 1 Pa		680		Ω
sensitivity reduction [ΔS-Vs]	f = 1 kHz, 1 Pa, Vs = 2.0 ~ 1.5 Vdc		-3		dB
frequency [f]		70		20,000	Hz
current consumption [I0SS]	Vs = 1.5 Vdc, RL = 680 Ω			0.5	mA
signal to noise ratio [S/N]	f = 1 kHz, 1 Pa, A-weighted		60		dBA
dimensions	Ø9.7 x 5.2				mm
material	AL				
terminal	solder pads				
weight				0.72	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	yes				

Notes:

1. We use the "Pascal [Pa]" indication of sensitivity as per the recommendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase 20 dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V/ubar) = -40 dB (1 V/Pa)

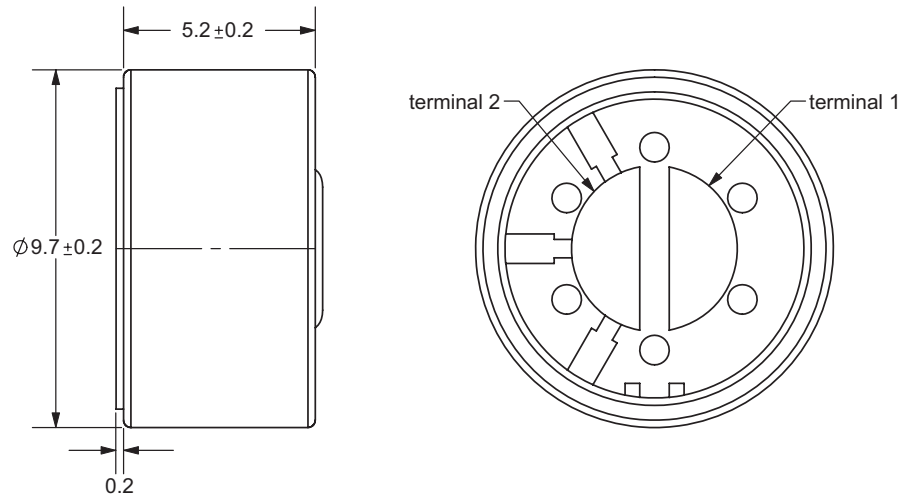
2. All specifications measured at 5-35°C, humidity at 45-85%, under 86-106 kPa pressure, unless otherwise noted.

SOLDERABILITY

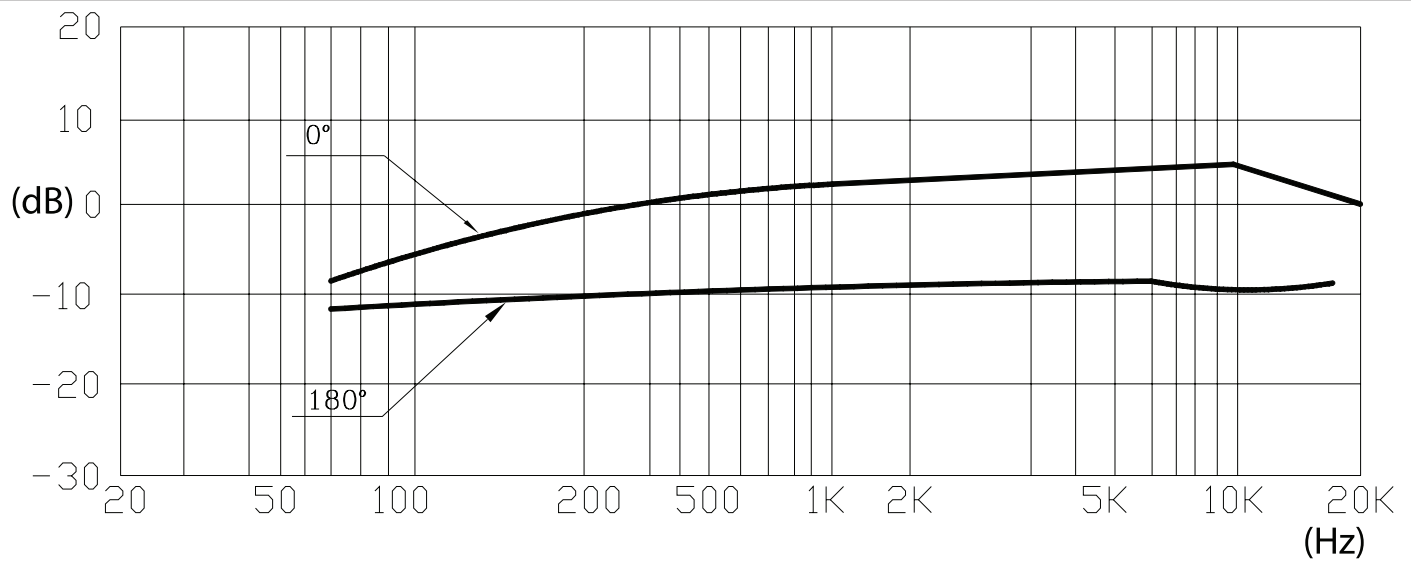
parameter	conditions/description	min	typ	max	units
hand soldering	for 2 ± 0.5 seconds	310	320	330	°C

MECHANICAL DRAWING

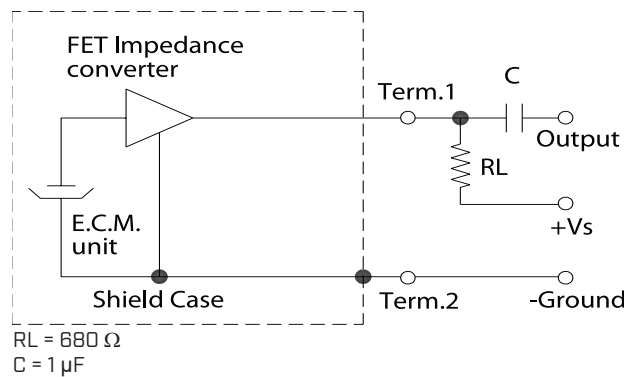
units: mm



FREQUENCY RESPONSE CURVE



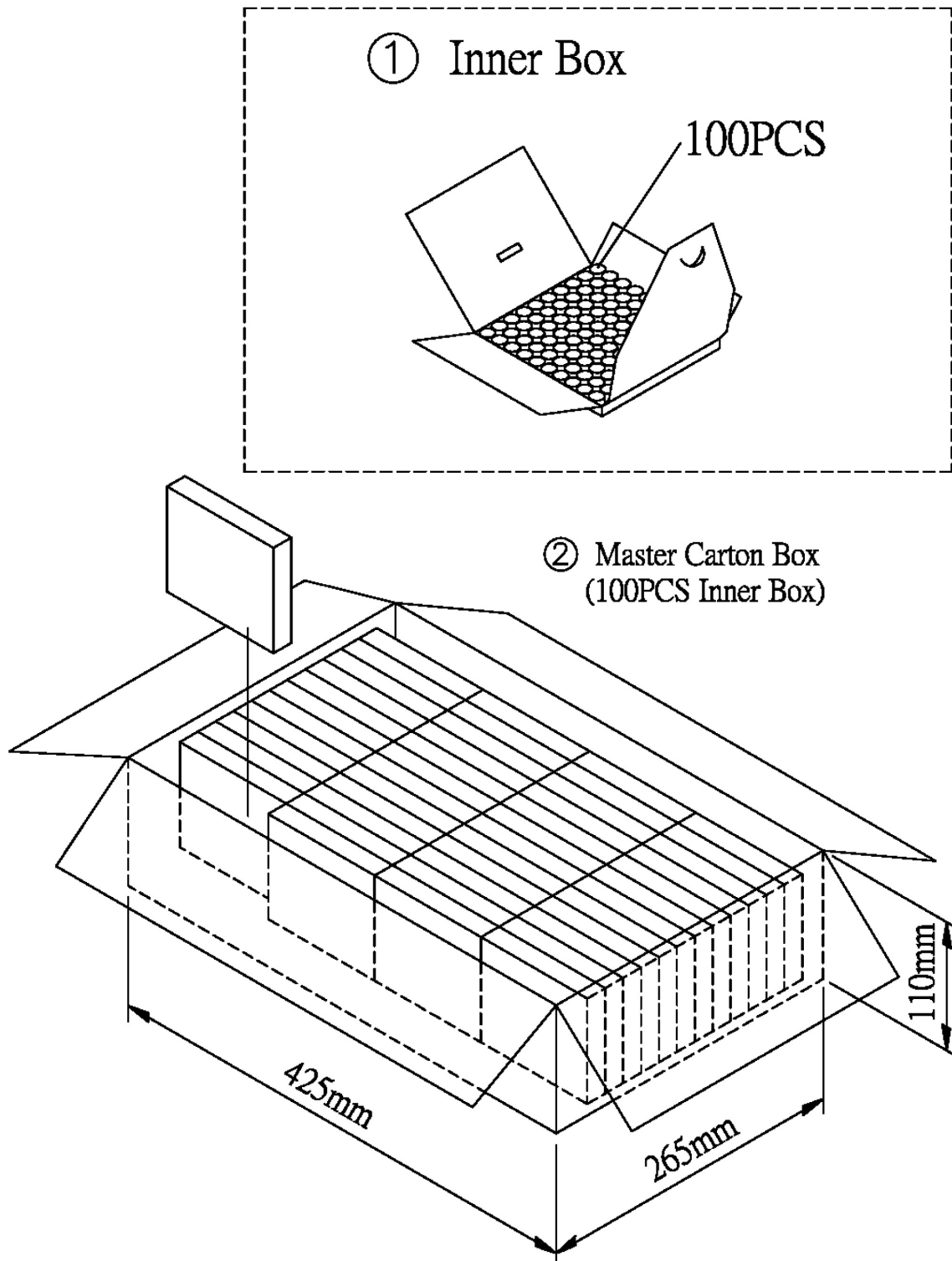
APPLICATION CIRCUIT



PACKAGING

units: mm

Inner Box Size: 100 x 100 x 18 mm
Outer Box Size: 425 x 265 x 110 mm
Inner Box QTY: 100 pcs per box
Outer Box QTY: 10,000 pcs per box



REVISION HISTORY

rev.	description	date
1.0	initial release	06/01/2008
1.01	brand update	04/24/2020
1.02	logo, datasheet style update	08/05/2022
1.03	CUI Devices rebranded to Same Sky	09/11/2024

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



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

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