

date 11/07/2016

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MODEL: CMC-9745-37T3 | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

FEATURES

- unidirectional
- high signal to noise ratio
- terminal mount





SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
directivity	unidirectional				
sensitivity (S)	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-40	-37	-34	dB
standard operating voltage (Vs)			1.5		Vdc
max operating voltage				9	Vdc
output impedance (Zout)	f = 1 kHz, 1 Pa	1.4	2.0	2.6	kΩ
sensitivity reduction (ΔS-Vs)	$f = 1 \text{ kHz}, 1 \text{ Pa, Vs} = 1.5 \sim 1.0 \text{ Vdc}$		-3		dB
frequency (f)		100		12,000	Hz
current consumption (IDSS)	Vs = 1.5 Vdc, RL = 2.0 k Ω			0.4	mA
signal to noise ratio (S/N)	f = 1 kHz, 1 Pa, A-weighted		72		dBA
dimensions	Ø9.7 x 4.5				mm
material	Al				
terminal	solder pads				
weight				0.8	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	2011/65/EU				

Notes:

SOLDERABILITY

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

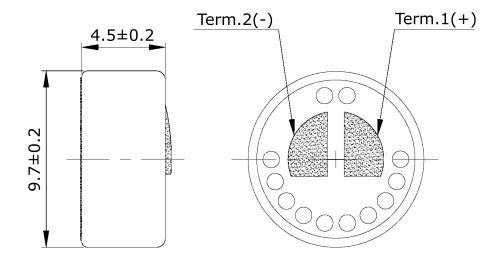
^{1.} We use the "Pascal (Pa)" indication of sensitivity as per the recomendation of I.E.C. (International Electrotechnical Commission). The sensitivity of "Pa" will increase

²⁰ dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V_0) 40 dB (1 V_0) 2. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

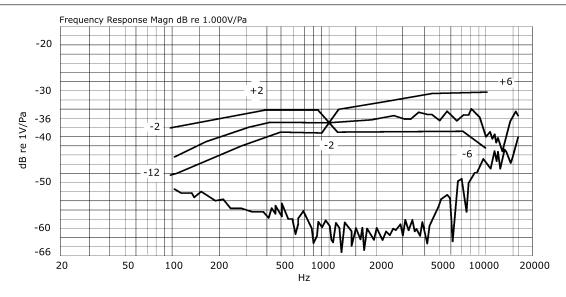
MECHANICAL DRAWING

units: mm

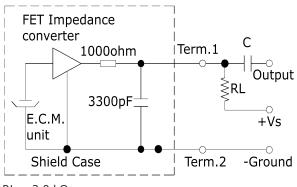
tolerance: ±0.2 mm



FREQUENCY RESPONSE CURVE



MEASUREMENT CIRCUIT



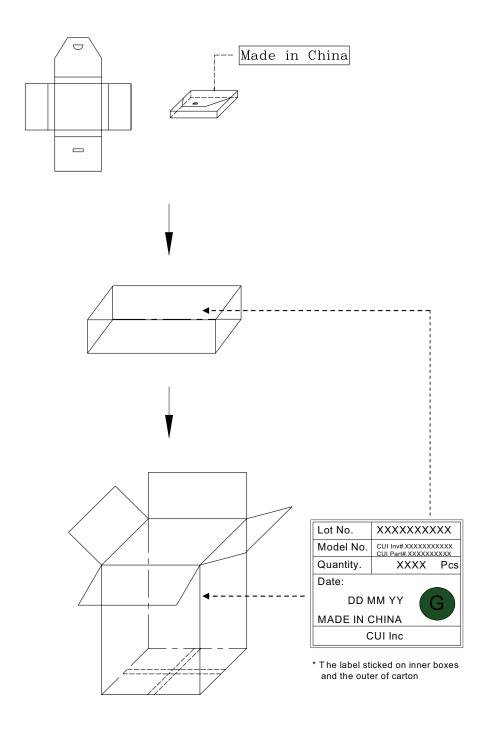
 $RL = 2.0 k\Omega$

 $C = 1 \mu F$

PACKAGING

units: mm

Inner Box Size: 100 x 100 x 7 mm Middle Box Size: 205 x 105 x 54 mm Outer Box Size: 210 x 210 x 280 mm Inner Box QTY: 100 pcs per box Middle Box QTY: 1,000 pcs per box Outer Box QTY: 10,000 pcs per box



REVISION HISTORY

rev.	description	date
1.0	initial release	11/07/2016

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



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