

date 08/05/2022

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MODEL: CMC-6050-40L100 | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

FEATURES

- omnidirectional
- 6 mm diameter
- 100 mm lead wires





SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity (S)	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-43	-40	-37	dB
standard operating voltage (Vs)			2		Vdc
max operating voltage				10	Vdc
output impedance (Zout)	f = 1 kHz, 1 Pa		2.2		kΩ
sensitivity reduction (ΔS-Vs)	f = 1 kHz, 1 Pa, Vs = 2.0 ~ 1.5 Vdc		-3		dB
frequency (f)		100		20,000	Hz
current consumption (IDSS)	Vs = 2.0 Vdc, RL = 2.2 kΩ			0.5	mA
signal to noise ratio (S/N)	f = 1 kHz, 1 Pa, A-weighted		60		dBA
dimensions	Ø6.0 x 5.0				mm
material	Cu				
terminal	wire leads				
weight			0.5		g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	yes				

Notes:

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

SOLDERABILITY

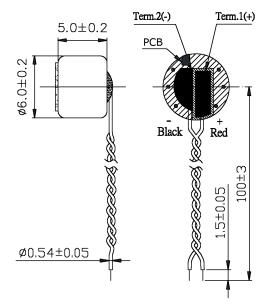
parameter	conditions/description	min	typ	max	units
hand soldering	for maximum 2 seconds	310	320	330	°C

^{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/ubar) = -40 dB (1V/Pa)

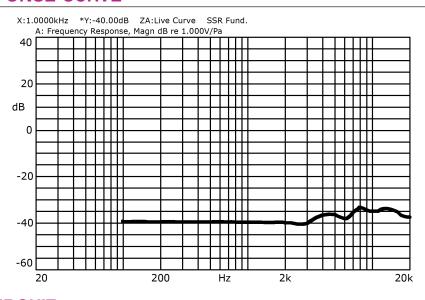
MECHANICAL DRAWING

units: mm

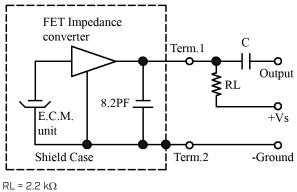
wire: UL1571 LF 32 AWG



FREQUENCY RESPONSE CURVE



MEASUREMENT CIRCUIT

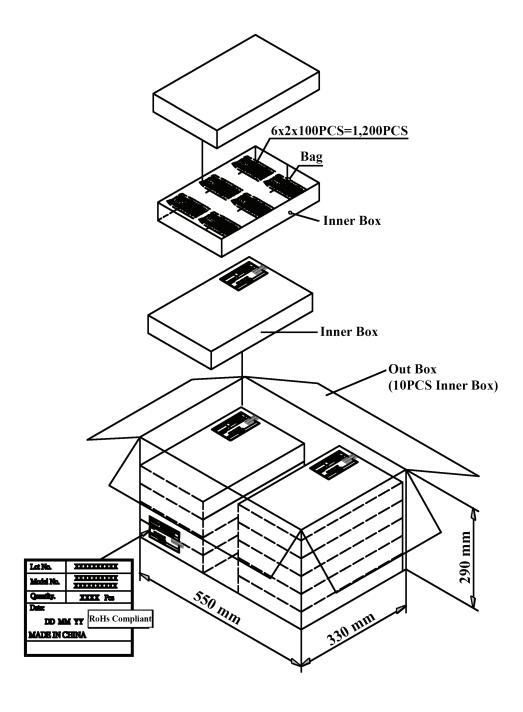


 $C = 1 \mu F$

PACKAGING

units: mm

Inner Box Size: 310 x 248 x 49 mm Outer Box Size: 550 x 330 x 290 mm Inner Box QTY: 1,200 pcs per box Outer Box QTY: 12,000 pcs per box



Additional Resources: Product Page | 3D Model

REVISION HISTORY

rev.	description	date	
1.0	initial release	11/23/2016	
1.01	brand update	01/15/2020	
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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