

date 11/03/2016

page 1 of 4

MODEL: CMC-6018-38P | DESCRIPTION: ELECTRET CONDENSER MICROPHONE

FEATURES

- omnidirectional
- low profile
- pin mount





SPECIFICATIONS

SP LOII ICATIONS			-		
parameter	conditions/description	min	typ	max	units
directivity	omnidirectional				
sensitivity (S)	f = 1 kHz, 1 Pa, 0 dB = 1 V/Pa	-41	-38	-35	dB
standard operating voltage (Vs	5)		2		Vdc
max operating voltage				10	Vdc
output impedance (Zout)	f = 1 kHz, 1 Pa		2.2		kΩ
sensitivity reduction (ΔS-Vs)	$f = 1 \text{ kHz}, 1 \text{ Pa, Vs} = 2.0 \sim 1.5 \text{ Vdc}$		-3		dB
frequency (f)		100		20,000	Hz
current consumption (IDSS)	$Vs = 2.0 Vdc$, $RL = 2.2 k\Omega$			0.5	mA
signal to noise ratio (S/N)	f = 1 kHz, 1 Pa, A-weighted		58		dBA
dimensions	Ø6.0 x 1.8				mm
material	Al				
terminal	pin type				
weight				0.18	g
operating temperature		-20		70	°C
storage temperature		-20		70	°C
RoHS	2011/65/EU				

Notes:

SOLDERABILITY

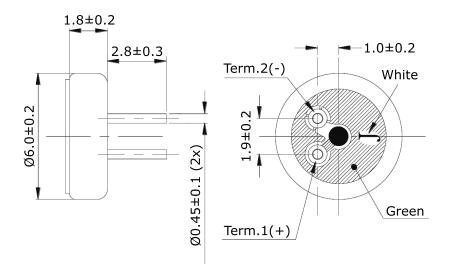
parameter	conditions/description	min	typ	max	units
hand soldering	for 2 ± 0.5 seconds	270	280	290	°C

^{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

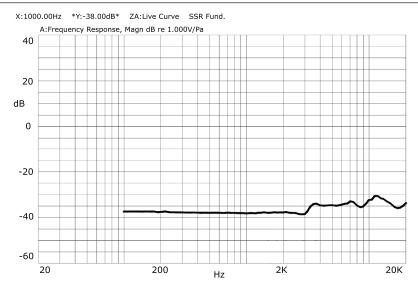
²⁰ dB compared to the "ubar" indication. Example: -60 dB (0 dB = 1 V_0) 40 dB (1 V_0) 2. All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

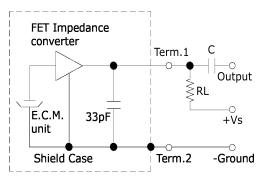
units: mm



FREQUENCY RESPONSE CURVE



MEASUREMENT CIRCUIT

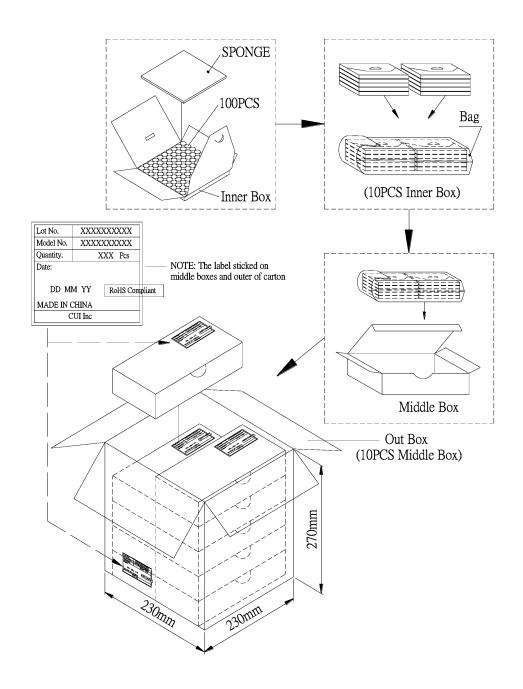


 $RL = 2.2 k\Omega$ $C = 1 \mu F$

PACKAGING

units: mm

Inner Box Size: 100 x 100 x 8 mm Middle Box Size: 205 x 106 x 52 mm Outer Box Size: 230 x 230 x 270 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	11/03/2016

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



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

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