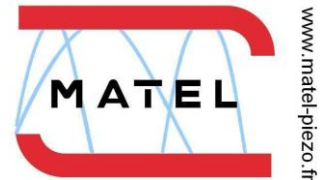


32.768KHz SMD Crystals MHH



FEATURES
32.768 KHz Case Name: 6.9 x 1.4 x 1.4
APPLICATION
Clock

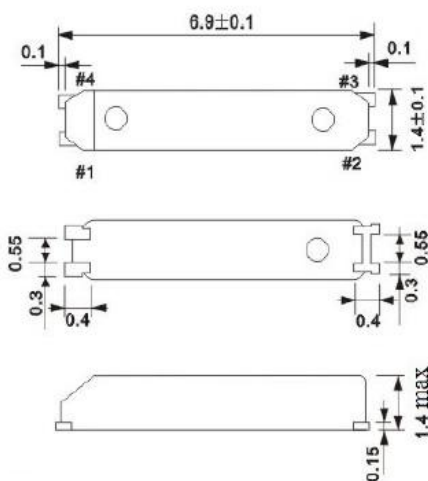
Electrical specifications :

Parameters	Conditions	Min	Typ	Max	Units
Frequency Range			32.768		KHz
Frequency Tolerance	At 25°C	± 10		± 100	ppm
Temperature Coefficient	Ref to 25°C			-0.035±0.01	ppm/(Δ°C) ²
Operating Temperature Range		- 40		+ 85	°C
Storage Temperature Range		- 55		+ 125	°C
Shunt Capacitance			0.8		pF
Motional Capacitance			2.8		fF
Load Capacitance		5	12.5	30	pF
Insulation Resistance	DC 100 V	500			MΩ
Drive Level				1	μW
Ageing (first year)	At 25°C ±3°C	- 3		+ 3	ppm
Equivalent Series Resistance (ESR)				65	kΩ

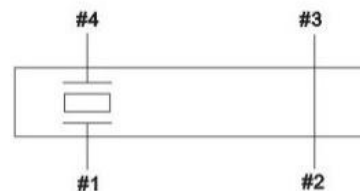
Example: MHH32.768-125M2

Mechanical Dimensions (mm) :

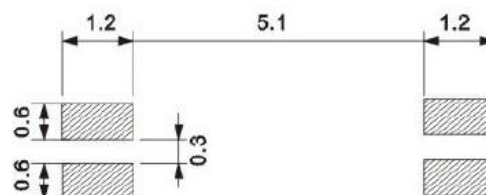
OUTLINE DIMENSIONS(unit:mm)



INTERNAL LEAD CONNECTION



RECOMMENDED SOLDERING PATTERN (unit:mm)



Remarks:

Do not connect #2 and #3 to external device and GND.

SMD Crystal Units

TYPE	MHH	REVISION	01	CHECKED	PB	DATE	04/12/2015
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All specifications are subject to change without notice

Crystal Units KHz Codification Part Numbering System



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MHA 32.768 - 125 A 3

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Dimensions	Package	Nominal Frequency (in KHz)	-	Load Capacitance	Operating Temperature Range	Frequency Tolerance
2.0 x 1.2 x 0.6	MHD	Please enter The nominal Frequency		05 = 5pF	A= 0°C to +50°C	1=±10ppm
3.2 x 1.5 x 0.75	MHE		10 = 10pF	B= 0°C to +70°C	2=±20ppm	
4.1 x 1.5 x 0.75	MHG		125 = 12.5 pF	C= -10°C to +60°C	3=±30ppm	
6.9 x 1.4 x 1.4	MHH		30 = 30 pF	D= -10°C to +70°C	5=±50ppm	
7.9 x 3.8 x 2.5	MHC		Other load capacitance on request	E= -20°C to +70°C	0=±100ppm	
2.7 x 8.7	MHI			G= -30°C to +85°C	X=±5ppm	
2 x 6	MHA			M= -40° to +85°C	Y=±15ppm	
2 x 6 K	MHK				Z=±25ppm	
2 x 6 L	MHL					
2 x 6 M	MHL					
3 x 8	MHB					

TYPE	CODIFICATION Crystal KHz	REVISION	02	CHECKED	PB	DATE	29/04/2016
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All specifications are subject to change without notice