SMD Crystal Units 5.0 x 3.2 x 0.9
HCX-5SB

www.matel-piezo.fr

RoHS lead-free

FEATURES
8 to 80 MHz Case Name: 5x3.2
APPLICATION
Excellent performance for application in wireless communication

Electrical specifications :

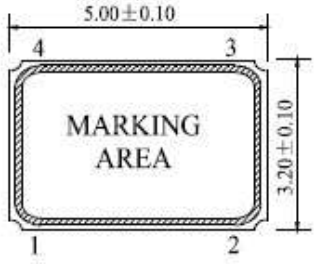
Parameters	Conditions	Min	Typ	Max	Units
Frequency Range		8		80	MHz
Frequency Tolerance	At 25°C	± 10		± 50	ppm
Temperature Stability	Ref to 25°C	± 10		± 50	Ppm
Operating Temperature Range		- 20*		+ 70*	°C
Storage Temperature Range		- 55		+ 125	°C
Shunt Capacitance				7	Pf
Load Capacitance		10		Series	pF
Insulator Resistance	100 Vdc	500			M Ω
Drive Level			100	300	µW
Ageing	At 25°C per year	-2		+2	Ppm

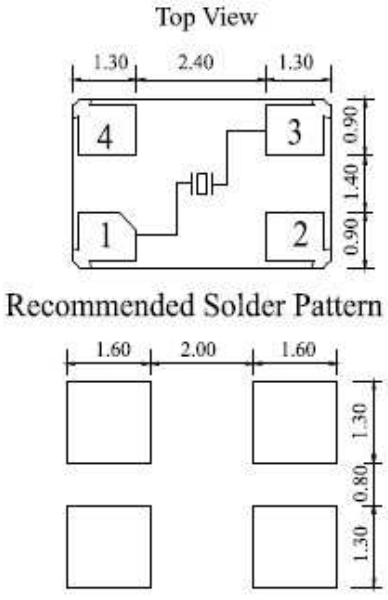
*Operating temperature: -30° to +85°C option

Equivalent Series Resistance (ESR) and Mode of Vibration (Mode) :

Frequency Range (MHz)	Max (ESR) Ω	Mode
8.000 to 9.999	120	Fundamental
10.000 to 11.999	80	Fundamental
12.000 to 23.999	50	Fundamental
24.000 to 54.000	30	Fundamental
48.000 to 80.000	70	3rd overtone

Mechanical Dimensions (mm) :





SMD Crystal Units

TYPE	HCX-5SB	REVISION	03	CHECKED	PB	DATE	16/09/2016

Crystal Units Codification
Part Numbering System

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HCX-TAB	12MHz	F	20	A	3	3	S

Package	Nominal Frequency (MHz)	Vibration Mode	Load Capacitance	Operating Temperature Range	Frequency Tolerance	Frequency Stability	Option
HCX-TAB HCX-1AB HCX-2SB HCX-3SB HCX-5SB HCX-5SA HCX-6SB HCX-6SA HCX-7SB HC-49U HC-49SA HC-49SB HC-49SMA HC-49SMB MF-04 MF-05 MF-24 MF-25 MF-UM1 MF-UM5	Please enter the nominal frequency	F = AT-fund T = AT-3rd V = AT-5th B = BT-fund	00 = series 10 = 10pF 32 = 32pF Other load capacitance on request	A= 0°C to +50°C B= 0°C to +70°C C= -10°C to +60°C D= -10°C to +70°C E= -20°C to +70°C G= -30°C to +85°C M= -40° to +85°C R= -55° to +125°C	1=±10ppm 2=±20ppm 3=±30ppm 5=±50ppm 0=±100ppm X=±5ppm Y=±15ppm Z=±25ppm	1=±10ppm 2=±20ppm 3=±30ppm 5=±50ppm 0=±100ppm X=±5ppm Y=±15ppm Z=±25ppm	S = Insulator tab G=Gull Wing