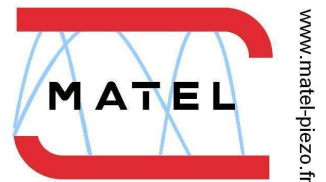


# SMD Crystal Units 3.2 x 2.5 x 0.75 HCX-3SB



FEATURES
10 to 115 MHz Case name 3.2x2.5
APPLICATION
Industrial Consumer

## Electrical specifications :

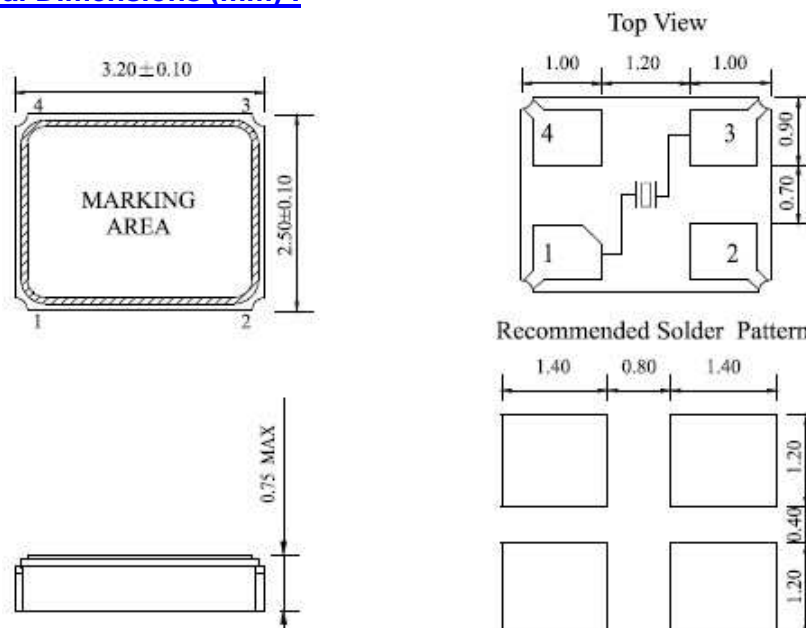
Parameters	Conditions	Min	Typ	Max	Units
Frequency Range		10		115	MHz
Frequency Tolerance	At 25°C	± 10		± 30	ppm
Temperature Stability	Ref to 25°C	± 10		± 30	Ppm
Operating Temperature Range		- 20*		+ 70*	°C
Storage Temperature Range		- 55		+ 125	°C
Shunt Capacitance				3	Pf
Load Capacitance		6		20	pF
Insulator Resistance	100 Vdc	500			M Ω
Drive Level			50	100	μW
Ageing	At 25°C per year	- 2.0		+ 2.0	Ppm

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

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

Frequency Range (MHz)	Max (ESR) Ω	Mode
10.000 to 11.999	150	Fundamental
12.000 to 19.999	100	Fundamental
20.000 to 23.999	70	Fundamental
24.000 to 64.000	50	Fundamental
64.000 to 115.000	100	3RD

## Mechanical Dimensions (mm) :



SMD Crystal Units

TYPE	HCX-3SB	REVISION	04	CHECKED	PB	DATE	16/09/2016
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All specifications are subject to change without notice

# 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

TYPE	CODIFICATION	REVISION	04	CHECKED	PB	DATE	22/04/2016
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All specifications are subject to change without notice