



INTERQUIP ELECTRONICS CO., LIMITED

Flat A, 9th Floor, On Shing Industrial Building, 2-16 Wo Liu Hang Road,

Fotan, New Territories, Hong Kong

Tel: (852) 2413 5515 Fax: (852) 2413 7053

Web site: <http://www.interquip.com> Email: iql@interquip.com

Crystal Resonator Specification and Approval Sheet

Customer: RS COMPONENTS

Project Name: N/A

Applications: N/A

Contact Person: N/A

Customer Part Number: N/A

1. Scope:

1.1 This specification applies to quartz crystal unit with a frequency of 3.686400MHz, which will be used in crystal oscillator applications.

2. Construction:

2.1 Type of Holder: SMAC-1045B (4 pads)

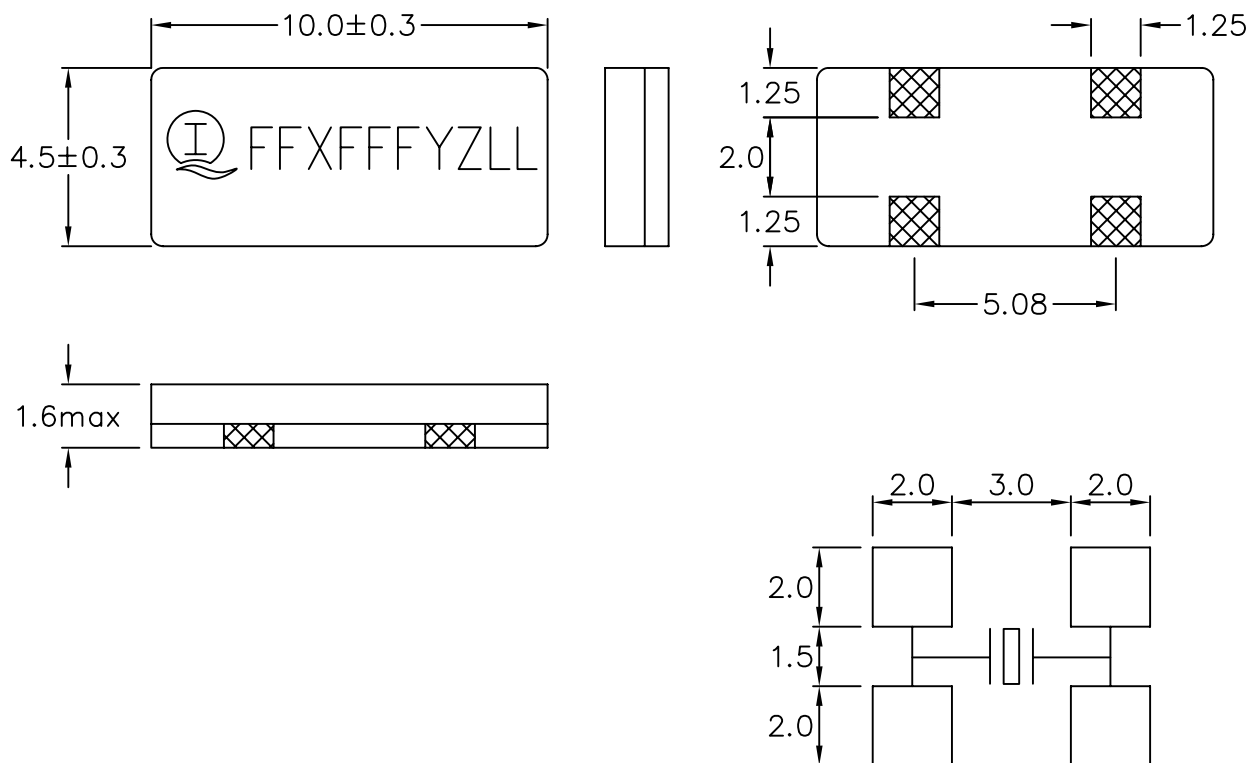
2.2 Enclosure Seal: Epoxy Resin Hermetic Seal (RoHS Compliance)

3. Characteristics:

3.1	Nominal Frequency	(f)	3.686400MHz
3.2	Mode of Vibration		Fundamental
3.3	Load Capacitance	(C _L)	12pF
3.4	Frequency Tolerance at 25 °C±3 °C	(Δ f/f)	±30ppm
3.5	Resonance Resistance	(Ω)	150 Ohm Max.
3.6	Shunt Capacitance	(C ₀)	7pF Max.
3.7	Drive Level	(D _L)	0.1mW
3.8	Frequency Deviation with Temperature	(Δ f/f)	±30 ppm
3.9	Operating Temperature Range	(T _{OPR})	-40°C to 85°C
3.10	Storage Temperature Range	(T _{STG})	-55°C to 125°C
3.11	Insulation Resistance	(SR)	500M Ω or More
3.12	Aging	(Δ f _A)	±5 ppm per Year Max.

				TITLE CRYSTAL RESONATOR		DWG.	M Zhao
						DATE	11-01-11
				PART NO: 5HEA03686123TFA5Q3	TOLERANCE	CHKD.	Cs Chiang
				MODEL SMAC-1045B (4 pads)	X± X.X±	DATE	10-08-25
				REMARK:	X.XX± ANGULAR±	APPD.	XM Sun
						DATE	10-08-25
DATE	MODIFY DESCRIPTION	BY	SALES : Gary Chan	SHEET 1/2		REV	0

EXTERNAL DIMENSIONS



MARKING SPECIFICATIONS

 — COMPANY'S LOGO

FF FFF — REPRESENT FREQUENCY (MHz)

X — REPRESENT PRODUCTION LINE CODE

YZ — REPRESENT MONTH & YEAR CODE RESPECTIVELY

" Y " :

MONTH	Jan	Feb	Mar	Apr.	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
MARK	A	B	C	D	E	F	G	H	J	K	L	M

" Z " CODE IS THE LAST NUMBER OF PRODUCTION YEAR
FOR INSTANCE:

YEAR	2008	2009	2010	2011	2012
MARK	8	9	0	1	2

LL — REPRESENT LOT CODE (AA-ZZ)

RECOMMENDED SOLDERING PATTERN

2. DO NOT SCALE DRAWING
NOTES: 1. ALL DIMENSIONS ARE IN MM



Interquip Electronics Co., Ltd

			TITLE		SMD RESONATOR		DWN.	M Zhao
			PART NO.		TOLERANCE	X.X±0.15	CHKD	Johnson Mok
			MODEL	SMAC-1045	X.XX±0.05	ANGULAR±	DATE	2009.3.11
			REMARK				APPD.	XM.Sun
							DATE	2009.3.11
DATE	MODIFY DESCRIPTION	BY			DWG.NO.	004-061B7-003	REV.	0