



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: igl@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 18.432000MHz, which will be used in crystal oscillator applications.

2. Construction:

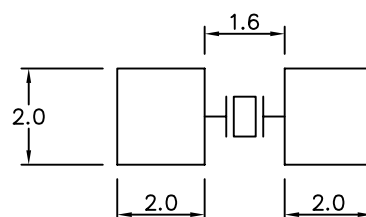
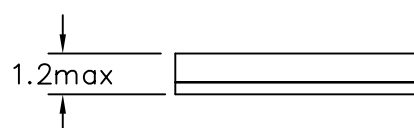
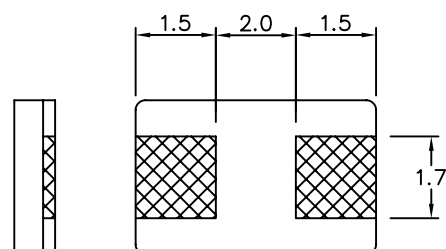
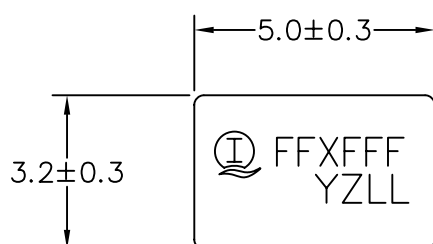
- 2.1 Type of Holder: SMAQ-5032A (2pads) RoHS Compliant
2.2 Enclosure Seal: Epoxy Resin Hermetic Seal

3. Characteristics:

3.1	Nominal Frequency	(f)	18.432000MHz
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)	±30 ppm
3.5	Resonance Resistance	(Ω)	50 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})	-40°C to 85°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	5RDA18432123TF50Q3		TOLERANCE	CHKD. J Mok
				MODEL	SMAQ-5032A (2 pads)		X± X.X±	DATE 11-01-11
				REMARK			X.XX± ANGULAR±	APPD. XM Sun
								DATE 11-01-11
	DATE	MODIFY DESCRIPTION	BY	SALESMAN :Gary Chan			SHEET 1/3	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	2009	2010	2011	2012	2013
MARK	9	0	1	2	3

LL — REPRESENT LOT CODE (AA-ZZ)

2. DO NOT SCALE DRAWING

NOTES: 1. ALL DIMENSIONS ARE IN MM



Interquip Electronics Co., Ltd

TITLE SMD RESONATOR

PART NO.

MODEL SMAQ-5032

REMARK

TOLERANCE

X. $\pm$ 0.3 X.X $\pm$ 0.15
X.XX $\pm$ 0.05 ANGULAR $\pm$



DWN. H_Zhang

DATE 2009.3.2

CHKD M_Zhao

DATE 2009.3.2

APPD. Xm_Sun

DATE 2009.3.2

DATE MODIFY DESCRIPTION BY

DWG.NO. 004-061G9-006

REV.1