承 认 书

SPECIFICATIONS FOR APPROVAL

客户名称：
Customer: _____

产品名称: 石英晶体谐振器
Description: CRYSTAL RESONATOR

产品型号: 6035 14.7456M 20PF 20PPM 4P
SPECIES

标称频率: 14.7456MHz
FREQUENC

料 号:
MATERIAL CODE SCIYS14X74560ELRM

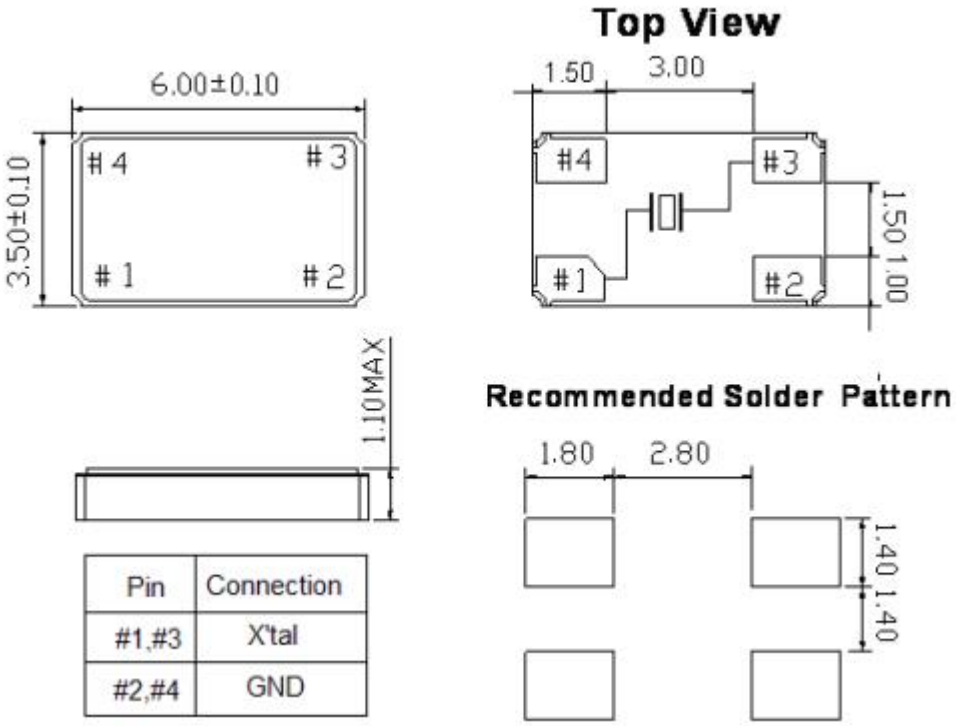
供应商确认				客户确认			
品管部 QC Dept	工程部 Engineer Dept	业务部 Trade Dept	☑ 合格 PASS ☐ 不合格 NG	品管部 QC Dept	工程部 Engineer Dept	采购部 Purchase Dept	☐ 合格 PASS ☐ 不合格 NG
莫平会	梁雄	陈晓群					

公司地址：四川省泸州市泸县工业园 B 区明星路 204 号（坤羽）五、六栋
电话：0830-8172777、0830-8106299 传真：0830-8106266

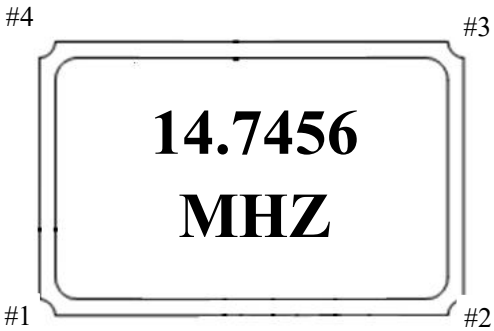
GENERAL SPECIFICATIONS（电气特性）:

No.	Parameters	Symb.	Electrical Specification				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	F0	14.745600			MHz	
2	Overtone order		Fundamental				
3	Frequency Tolerance	△F/F0	-20	-	+20	ppm	at 25℃±3℃
4	Operating Temperature Range	T_{OPR}	-40	-	+85	℃	
5	Frequency Stability	TC	-30	-	+30	ppm	The reference temperature shall be +25°C
6	Storage Temperature	T_{STG}	-55	-	+150	℃	
7	Load capacitance	CL	-	20	-	pF	
8	Equivalent resistance	ESR	-	-	50	Ω	
9	Level of drive	DL	-	100	300	μW	
10	Insulation Resistance		500	-	-	MΩ	DC100V ±15V.
11	Shunt Capacitance	C0	-	-	7	pF	
12	Aging Per Year	Fa	-3	-	+3	ppm	First Year
13	Package type	6035 seam 4PAD					

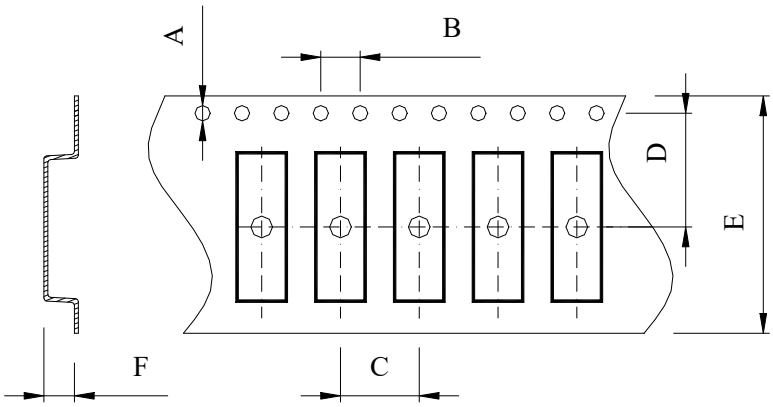
DIMENSIONS SPECIFICATIONS（外形尺寸）



Pin	Connection
#1,#3	X'tal
#2,#4	GND

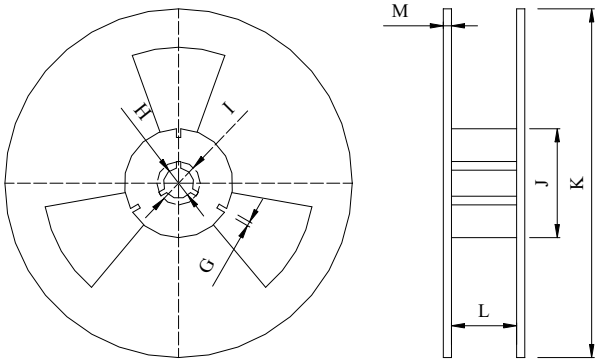


Tape Dimensions(unit : mm)



A	B	C	D	E	F
1.50	4.0	8.0	7.5	16	1.6

Reel Dimensions(unit: mm)



G	H	I	J	K	L	M
2.5	13.5	21.6	60.0	178	13.5	1.6

No.	Test Item	Test Conditions	Spec Code
1	High Temperature Storage	Temperature: 125℃±5℃ Time: 1000±12 Hours	A
2	Temperature Cycle	Temperature 1: -55℃±5℃ Temperature 2: 125℃±5℃ Temperature change between T1 and T2 at soonest Run 1000 cycles, maintain T1 and T2 30 minutes each in one cycle	A
3	High Temperature, High Humidity Storage	Temperature: 85℃±5℃ Relative Humidity: 80%--85% Time: 250Hours±24 Hours	A
4	Steam Aging	Temperature: 97℃±5℃; Time: 24 Hours 260℃ solder pot to check solderability	A
5	Solderability	Pre-heat temperature: +150±10℃ Pre-heat time:60~120s When the temperature of the specimen is reached at+215±3℃, it shall be left for 30±1sec. Peak temperature 240±5℃ Material: Pb-free (Sn-3.0Ag-0.5Cu) Flux: Rosin resin methyl alcohol solvent (1: 4)	B
6	Aging	Temperature: 85℃±5℃; Time: 250±12Hours	A
7	Drop Test	Preparation: Test pieces should be fixed on the dummy load with 200g weight. Condition: Height 1.5m onto concrete Drop times :10 times in 6 mutually perpendicular axes	A
8	Vibration	Frequency Range: 10Hz~2000Hz Amplitude: 1.5mm or 20G 4Hours in each direction, total 12Hours	A
9	Reflow resistance	Pre-heat temperature : +150~180℃ Pre-heat time: 90±30s Heat temperature : more than +230℃ Heat time: 30s ±10s Peak temperature : +260±5℃ Peak time: less than 10s	A

Specification code	Specification
A	Δf/f ≤±3 ppm ΔCI/CI ≤±15 % or 5 Ωmake use larger value
B	The electrodes should be covered by a new solder at least 90% of immersed area.