1. SCOPE

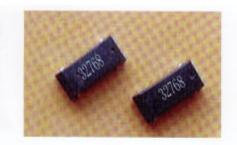
This specification shall cover the characteristics of crystal unit with

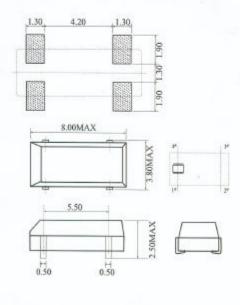
P/N: ZM206-

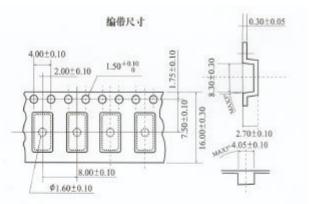
2. ELECTRICAL SPECIFICATION

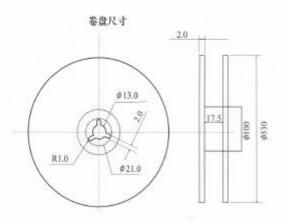
ITEM	SPECIFICATION
HOLDER TYPE	8X3.8x2.5mm
NOMINAL FREQUENCY	30.000-200.000KHz
LOAD CAPACITANCE	12.5PF
FREQUENCY TOLERANCE (25 ± 2)	± 20 PPM $\pm 30 \pm 50$
EQUIVALENT SERIES RESISTANCE	40K max
DRIVE LEVEL	1.0 µ W
OPERATING TEMPERATURE RANGE	-10 ~+60
STORAGE TEMPERATURE	-40 ~+85
AGING	± 5PPM/YEAR
INSULATION RESISTANCE	>500M

3. DIMENSION (Unit: mm)









4. MECHANICAL SPECIFICATION

1) Terminal Strength

1) Terminal Stre	ngth	
* Lead pull	ing test	
Condition	ns: Load	907.2 gram
	Direction	To the downward
	Duration of applied force	5 seconds
Results:	There should be no distortion	in appearance.
* Lead ben	ding test	
Condition	ns: Load	453.6 gram
	Bending angle	90° to normal position
	Rate of bending	3 seconds in each cycle
	Number of bending	3
Results:	There should be no distortion i	in appearance.
2) Lead solderal	pility test	
Conditions	: Dipping in solder(+230 ± 5)for 5 seconds
Results:	More than 95% of surface being	g tested should be
	coated uniformly with solder.	
3) Vibration tes	t	
Conditions	: Frequency	10 – 55Hz
	Amplitude	0.762mm
	Sweep	1.0 minute
	Duration	2 hours
Results:	Frequency and wave form of test	sted products must
	Remain within specifications.	
4) Drop test		
Conditions:	Method of drop	Natural drop
	Dropping floor	Hard wood board
	Height	30cm
	Number of drops	3 times
Results:	Results: Frequency and wave form of tested products must	
	remain within specifications.	

5. ENVIRONMENTAL SPECIFICATION

1)	Temperature tes	t
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1) Temperature test			
* Temperature cycling test			
Conditions: Steps of cycle	1) At -55 ,30 minutes		
	2) At +25 ,10 - 15 minutes		
	3) At +85 ,30 minutes		
	4) At +25 ,10 - 15 minutes		
Number of cycles	s 3 times		
Results: Frequency and w remain within spe	vave form of tested products must ecifications.		
* Low Temperature test			
Conditions: Temperature	-20 ±2		
Length of test	96 hours		
Results: There should be no	Results: There should be no stain on surface of products.		
Frequency and wav	e form of tested products must		
remain within spe	cifications.		
2) Aging test			
Conditions: Temperature	$+85 \pm 20$		
Length of test	96 hours		
Results: Deviation of freque	ency must be less than ± 3 ppm		
3) Salt spray test			
Conditions: Temperature	$+35 \pm 2$		
Length of test	48 hours		
NaCI %	5%		
Results: There should be no st	tain on surface of products.		
	-		
4) Humidity test			
Conditions: Temperature	$+40 \pm 2$		
Relative humidity	90 - 95%		
Length of test	96 hours		
Results: a. Insulation resistance must be 500 M /100 Vac. minimum			
b. Resistance and wave form must remain within specifications.			