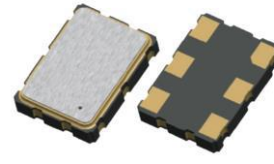


FEATURE		TYPICAL APPLICATION							
<ul style="list-style-type: none"> ● 2.5 x 2.0 SMD Oscillator ● Conforms to AEC-Q200 ● Tight symmetry (45 to 55%) available ● Operation voltage: 1.8V, 2.5V, 3.3V ● Tri-state enable/disable ● Built-in ASIC enables reduction of current consumption. 		<ul style="list-style-type: none"> ● Typically used for real time clock applications ● Mobile Phone ● DSC, Set-top Box, HDTV ● Car navigation systems 							
BS2520A Series									
Parameter		3.3v		2.5V		1.8V		Unit	Conditions
		Min.	Max.	Min.	Max.	Min.	Max.		
Supply Voltage Variation		VDD-10%	VDD+10%	VDD-10%	VDD+10%	VDD-10%	VDD+10%	V	
Frequency		32.768						kHz	
Transition Time (10%-90%)	Rise Time / Fall Time	-	50	-	50	-	50	nSec	
		-	120	-	120	-	120	uA	(@ 15pF load)
Supply Current		-	80	-	80	-	80	uA	@No Load
Duty Cycle		45	55	45	55	45	55	%	
Output Level	Output High	2.97	-	2.25	-	1.62	-	V	
	Output Low	-	0.33	-	0.25	-	0.18	V	
Tri-State Mode (Input to Pin 1)	Enable	2.31	-	1.75	-	1.26	-	V	
	Disable	-	0.99	-	0.75	-	0.54	V	
Start Time		-	2	-	2	-	2	mSec	
Aging		-	±3	-	±3	-	±3	ppm	@ 25°C, First Year
Storage Temp. Range		-55	125	-55	125	-55	125	°C	
FREQ. STABILITY vs. TEMP. RANGE		±20ppm		±25ppm		±40ppm		±40ppm	
		-10~+60	Available	Available	Available	Available			
		-20~+70	Conditional	Available	Available	Available			
		-40~+85	Not Available	Conditional	Available	Available			
		-40~+105	Not Available	Not Available	Available	Available			
		-40~+125	Not Available	Not Available	Conditional	Available			
Note: not all combination of options are available. Other specifications may be available upon request.									

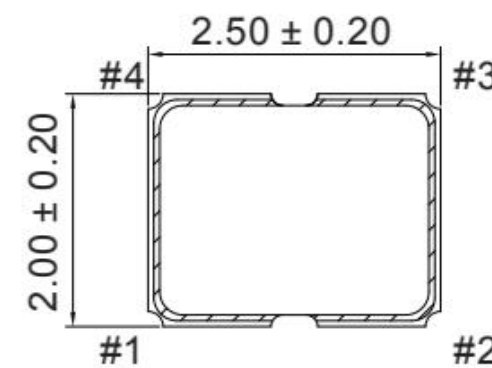
Reliability

Parameter	Condition
Temperature Stress Test	IEC60068, GJB360B
Mechanical Stress Test	IEC60068, GJB360B
EMC Test (ESD)	IEC61000, JESD22
Solderability	EIA/JESD22-B102-C
Contact Pads	Gold over Nickel
RoHS	RoHS Directive 2011/65/EU Annex II Recasting 2002/95/EC

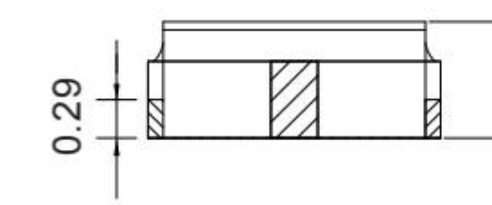
Outline Dimension & Pin Connections

Unit: mm

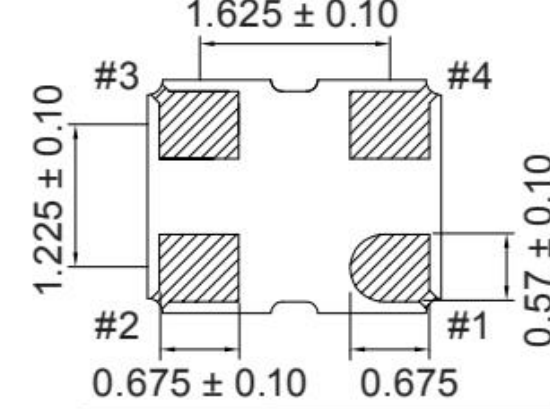
[TOP VIEW]



[SIDE VIEW]



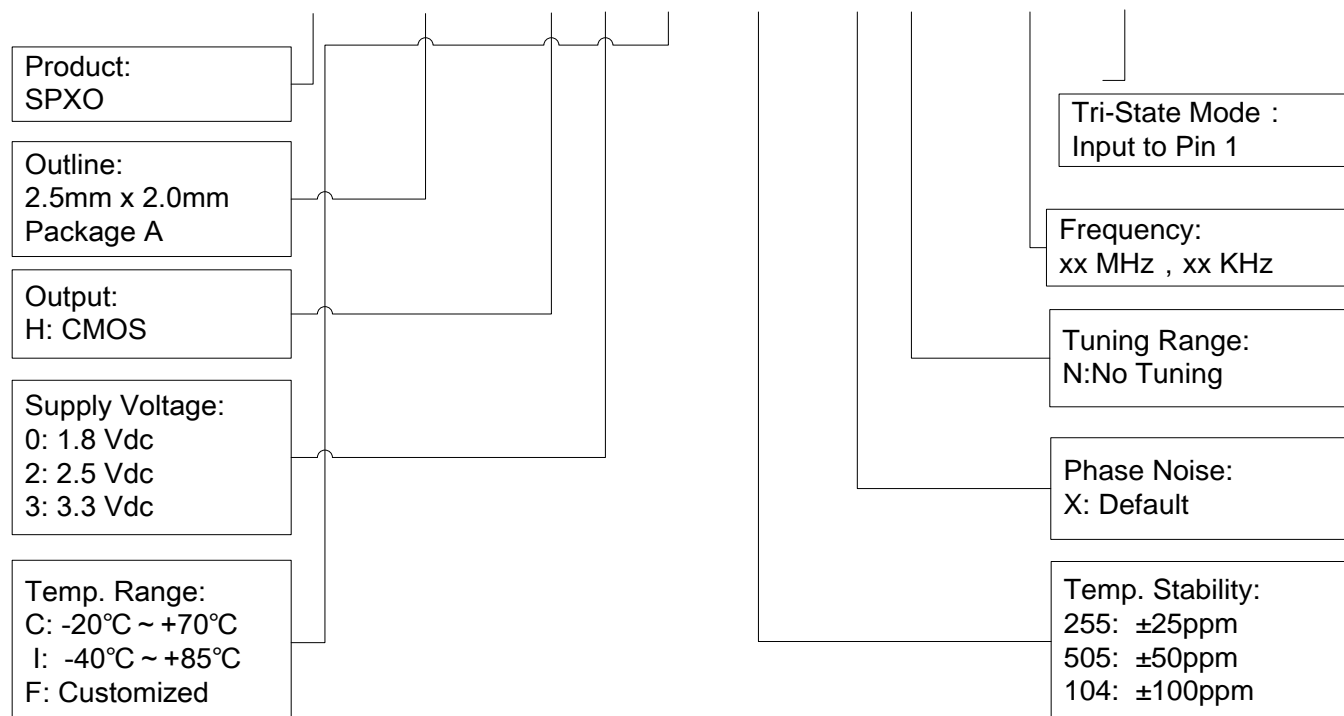
[BOTTOM VIEW]



Pin#	Function
1	Tri-state
2	GND
3	Output
4	VDD

Ordering Guide

BS2520A X X X XXX X XXX.XX X



Example: BS2520AD3I505CN20

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