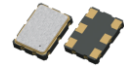


Features

- Small size (7.0*5.0mm)
- SMD
- Low Jitter

Applications

- CPU , Graphics , Multimedia A / V clocks
- MPEG / DVD / HDTV clocks
- Laser engine pixel / set - top clocks
- SONET / SDH / ATM clocks
- Fast Ethernet and Gigabit Ethernet clocks



BS0507D Series

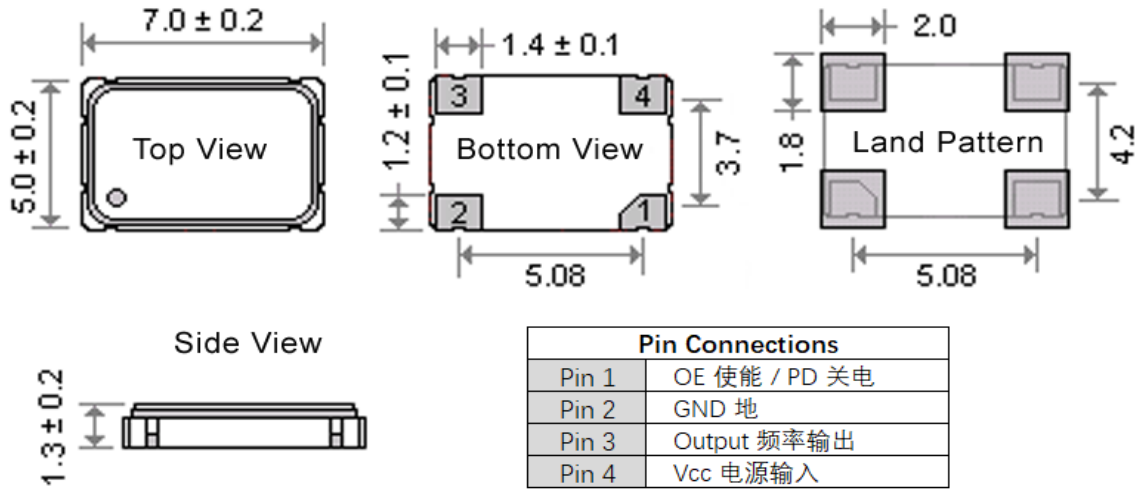
Parameter	Value				Unit	Conditions	
Supply Voltage (VDD)	+1.8 V ± 5%	+2.5V ± 10%	+3.3V ± 10%				
Frequency Range	1 ~ 125	1 ~ 200	1 ~ 200		MHz		
Current Consumption	20 typ.	28 typ.	30 typ.		mA		
	30 max.	35 max.	40 max.		mA		
Output Logic " High " , " 1 "	+1.4V min.	+2.1V min.	+2.9V min.		V		
Output Logic " Low " , " 0 "	+0.4V max.	+0.4V max.	+0.4V max.		V		
Rise Time (Tr) / Fall Time (Tf)	2.0 typ.	1.4 typ.	1.1 typ.		ns	Measured between 10% ↔ 90% of wave form (CL = 15pF)	
	5.0 max.	3.0 max.	3.0 max.		ns		
Frequency Stability over Operating Temperature Range	±25 / ±50 / ±100				ppm	Commercial (-20°C to +70°C)	
	±25 / ±50 / ±100				ppm	Industrial (-40°C to +85°C)	
Output Load	15				pF		
Duty Cycle	1~150MHZ	50% ±5%			-		
	151~200MHZ	50% ±10%			-		
Start -up Time	4.5 msec. typ.; 10 msec. max.				ms		
Storage Temperature	- 55°C~+125°C				°C		
Aging at Ta=+25°C	±2 ppm (max.) first year; ±2 ppm (max.) per year thereafter.				ppm		
Output Enable / Disable Function	70% of VDD (min.) to enable output.				V		
	30% of VDD (max.) to disable output.				V		
Pad1 Options	Power Down Mode (PD)	Disable Current: 300uA typ.; 400uA max.			uA		
		Output Enable Time: 4.5 msec. typ.; 10 msec.max.			ms		
	OE Mode. High Enable (OE)	Disable Current: 18mA typ.; 22mA max.			mA		
		Output Enable Time:10 nsec.max.			ns		
RMS Jitter	0.9ps typ.				ps	12KH Z~ 20MHZ	
Phase Noise 25MHZ@3.3V (offset dBc/Hz)	10Hz	100Hz	1KHz	10KHz	100KHz	1MHZ	10MHz
	-61	-89	-110	-119	-119	-142	-149

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

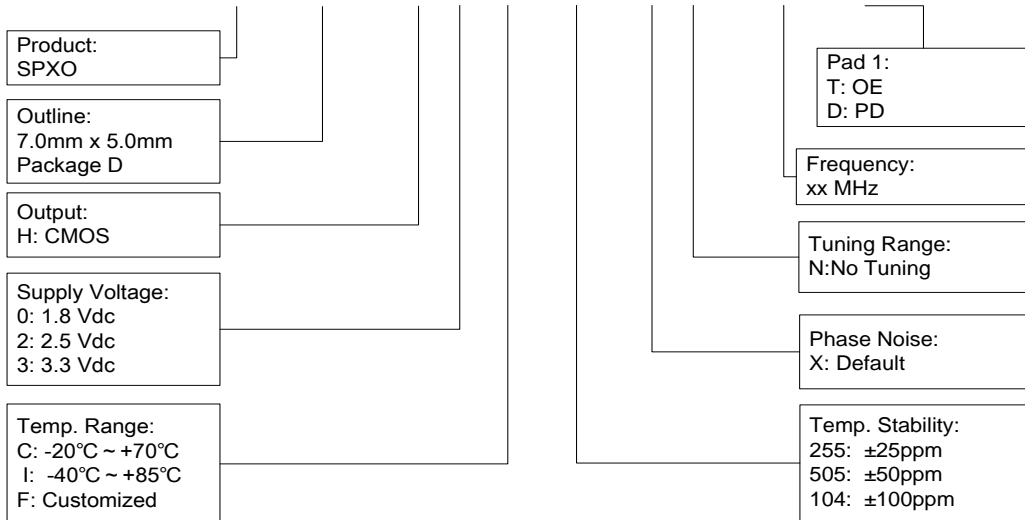
Outline Dimension & Pin Connections

Unit: mm



Ordering Guide

BS 0507D X X X XXX X X XX.XX X



Example: BS0507AD3I505CN20

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