


Features	Applications
<ul style="list-style-type: none"> ● High frequency & Low Noise ● SMD Package (7.0×5.0mm) ● Quick Warm-up 	<ul style="list-style-type: none"> ● Low vibration RF Communication ● Wireless Communication ● Low Phase Noise Signal Resource ● SDH/SONET ● GNSS 

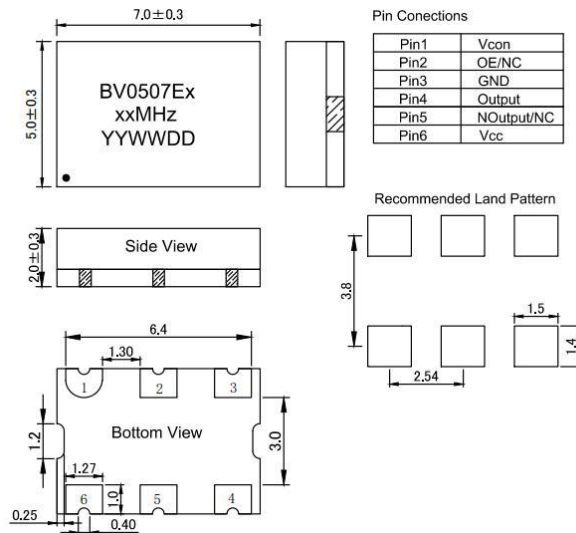
BV0507E Specifications						
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Parameter	Value			Unit	Conditions	
	Min.	Typ.	Max.			
Supply Voltage	-	3.3	-	V	Vcc±5%	
	-	5	-	V	Vcc±5%	
Supply Current	20	-	80	mA		
Frequency Range	10 ~ 156.52			MHz		
Nominal Frequency	40,80, 100, 120, 122.88			MHz		
Freq. Stability Vs. Temp.	±10	±12	±15	ppm	-40°C~+85°C	
LVPECL	V _{OH}	1.86	-	2.11	V	
	V _{OL}	1.06	-	1.31	V	
	Duty Cycle	45	-	55	%	(V _{OH} - V _{OL})/2
	Rise/Fall Edge	-	0.2	1	ns	
	Load	-	-	50	pf	
LVDS	V _{pp}	250	350	450	mV	
	V _{os}	1.125.	1.25	1.375	V	
	Duty Cycle	45	-	55	%	(V _{OH} - V _{OL})/2
	Rise/Fall Edge	-	0.2	1	ns	Tr/Tf:20%←→80% waveform
	Load	-	-	100	Ω	
RMS Jitter(By E5052B)@100MHz	200	-	700	fs	12KHz~5MHz	
Supply Sensitivity	-	-	±0.1	ppm	Vcc±5%	
Load Sensitivity	-	-	±0.2		Load±5%	
Aging/ First Year	-	-	±1.0		Standard	
SSB Phase Noise @100MHz	-	-78	-75	dBc/Hz	Offset 10Hz	At +25°C
	-	-112	-110		Offset 100Hz	
	-	-140	-135		Offset 1kHz	
	-	-150	-145		Offset 10kHz	
	-	-155	-150		Offset 100kHz	
Control Voltage Range	0~3.3			V		
Frequency Tuning Range	±20	±30	±40	ppm	At shipment, nominal EFC, +25°C	
Tuning Slope	positive					
Non-linearity	-	-	10	%		

Environmental Conditions	
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Operating Temperature Range	-40°C ~ +85°C
Storage Temperature Range	-55°C ~ +125°C

Outline Dimension & Pin Connections



Maximum Ratings

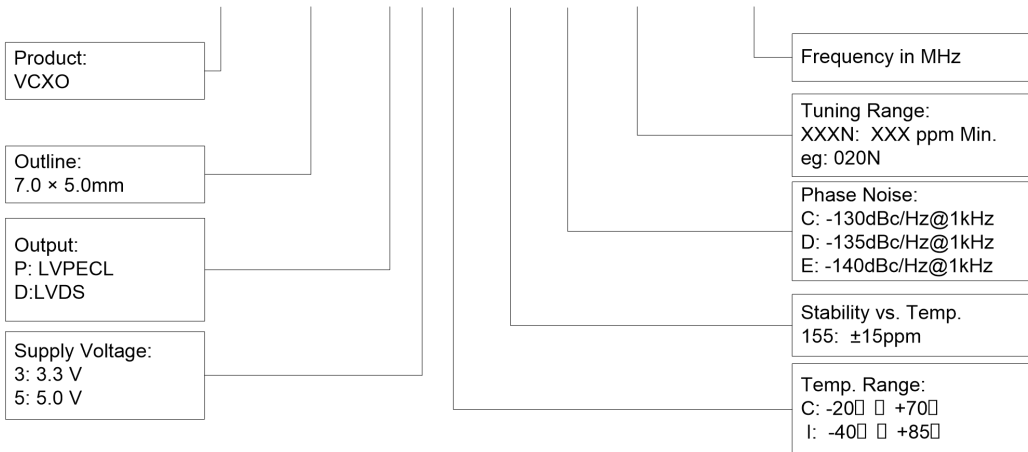
Parameter	Symbol	Rating
Supply Voltage	Vdd	-0.5V / 6V
Control Voltage	Vcon	0V / 3V
ESD, HBM/CDM/MM		4KV/ 2KV/ 200V

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

Ordering Guide

BV 0507E X . X X



Example: BV0507DH31155D020N100

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