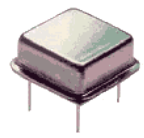




BV525 SERIES HCMOS/TTL DIL-8 VCXO



- HERMETICALLY SEALED DIL-8 THRU-HOLE PACKAGE
- HCMOS / TTL SQUAREWAVE OUTPUT
- 3.3 OR 5.0V DC SUPPLY VOLTAGE
- RoHS Compliant; Pb FREE
- WIDE ARRAY OF PULLABILITY OPTIONS (50-300ppm)
- FREQUENCY STABILITY AS TIGHT AS ± 10 ppm
- -40 TO +85°C TEMPERATURE RANGE AVAILABLE
- OPEN CRYSTAL DESIGN

BV525 VCXO SERIES								
Frequency Range		1.0 to 200.0MHz						
Output Wave Form		HCMOS/TTL SQUAREWAVE						
Frequency Stability		± 10 ppm	± 15 ppm	± 20 ppm	± 25 ppm	± 50 ppm	± 100 ppm	
Temperature Range	0 to 70°C	YES	YES	YES	YES	YES	YES	
	0 to 60°C	YES	YES	YES	YES	YES	YES	
	-10 to 60°C	YES	YES	YES	YES	YES	YES	
	-20 to 70°C	YES	YES	YES	YES	YES	YES	
	-30 to 75°C	Contact Us	YES	YES	YES	YES	YES	
	-10 to 70°C	Contact Us	Contact Us	YES	YES	YES	YES	
	-40 to 85°C	Contact Us	Contact Us	YES	YES	YES	YES	
Supply Current		20mA Max @ 20MHz						
Load		15pF/10TTL (Standard) * Contact Sales for Custom Load Specification Options *						
Pull Range(Minimum)		± 50 ppm	± 75 ppm	± 100 ppm	± 150 ppm	± 200 ppm	± 250 ppm	± 300 ppm
Supply Voltage (Vcc)		5Vdc $\pm 5\%$			3.3Vdc $\pm 5\%$			
Control Voltage(Vcon)		2.5Vdc			1.65Vdc			
Control Voltage Range		0.5~4.5V (Suffix Blank)			0.3~3.0V (suffix E)			
		0~5.0V (Suffix A)			0.5~2.5V (suffix F)			
		0.5~4.75V (Suffix C)			0~3.3V (suffix G)			
		0.5~5.0V (Suffix D)						
Rise and Fall time		10ns Max (Standard) * Contact Sales for Custom Rise and Fall Time Options *						
Symmetry		60/40% , 55/45% (Suffix "S")						
SSB Phase Noise At 25°C	Offset	10 Hz	100Hz	1 kHz	10 kHz	100 kHz	1 MHz	
	3.3V-10.0MHz	-91.6 dBc/Hz	-124.1dBc/Hz	-148.8dBc/Hz	-158.8dBc/Hz	-161.8dBc/Hz	-160dBc/Hz	
Aging		± 3.0 ppm Max/Year(Standard) * Contact Sales for Custom Aging Options *						
Storage Temperature		-55 to 125°C						

BV525 VCXO SERIES PART NUMBER GUIDE

MODEL	STABILITY	Pull Range(min)	SYMMETRY	Voltage	Control Voltage(Range)	OPER. TEMP. (°C)	FREQ.
BV525	A ± 25 ppm	A ± 100 ppm	BLANK= 60/40%	33=3.3V	Blank=2.5V(0.5~4.5V)	Blank=0°C TO 70°C	
	B ± 20 ppm	B ± 50 ppm		Blank=5.0V	A=2.5V(0~5.0V)	B=0°C TO 60°C	
	C ± 15 ppm	C ± 75 ppm	S=55/45%		C=2.5V(0.5~4.75V)	C =-10 to 60°C	
	D ± 10 ppm	E ± 150 ppm			D=2.5V(0.5~5.0V)	H=-10°C TO 70°C	
	E ± 50 ppm	F ± 200 ppm			E=1.65V(0.3~3.0V)	D=-20°C TO 70°C	
	F ± 100 ppm	G ± 250 ppm			F=1.65V(0.5~2.5V)	E=-30°C TO 75°C	
		H ± 300 ppm			G=1.65V(0~3.3V)	M=-40°C TO 85°C	

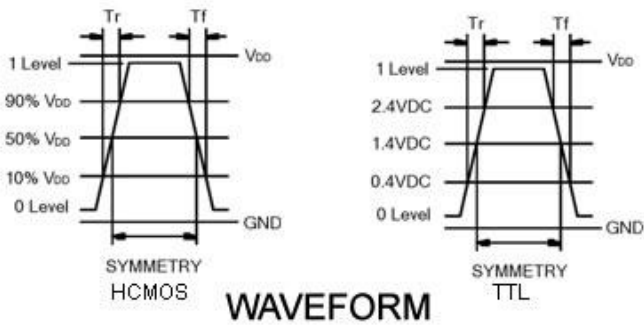
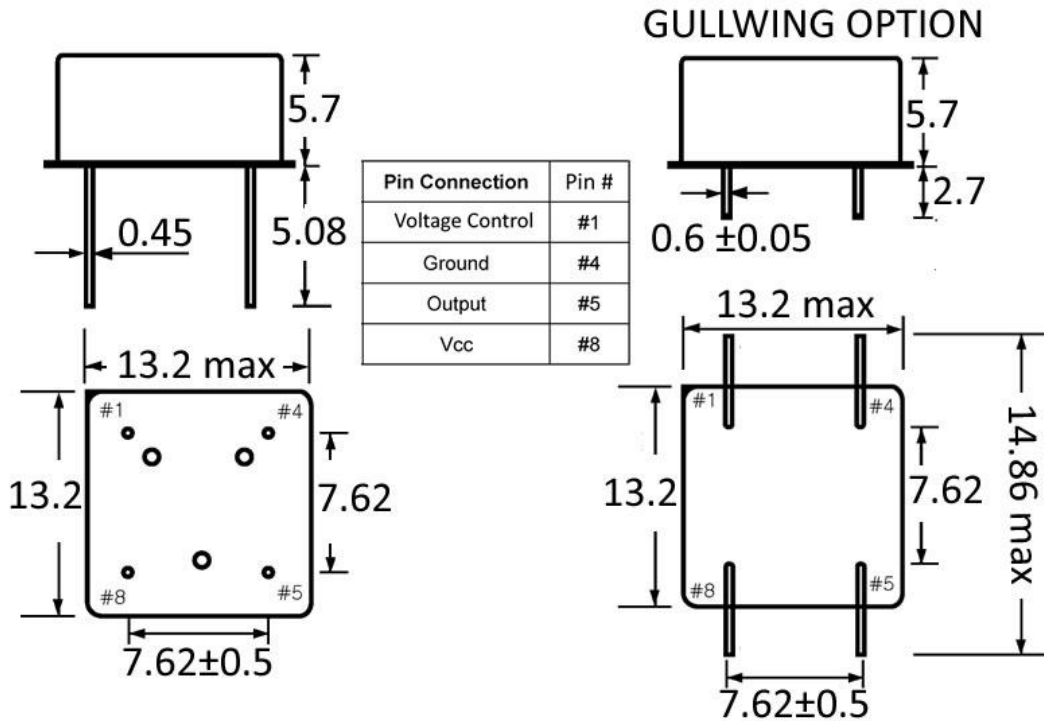
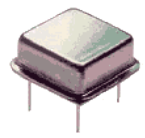
GULL WING PACKAGE OPTION Add SUFFIX "G" AFTER PART NUMBER

PART NUMBER EXAMPLE

BV525	A	B		33	A	M	10.0
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TYPICAL APPLICATIONS

Telecommunication
Wireless Application



HCMOS TEST CIRCUIT

