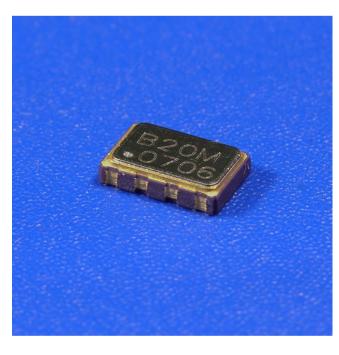


3.2 x 5 mm TCVCXO TV105A Series

Description:

The TV105A
Temperature
Compensated Voltage
Controllable Crystal
Oscillator (TCVCXO)
Series products provide a
wide range of options in
temperature stability,
operating frequency
range, and electronic
frequency adjustment in
a miniature 3.2 x 5 mm
ceramic SMD package.



Features:

- Available in frequencies from 10 to 52 MHz with 13 MHz, 14.4 MHz, 20 MHz, and other frequencies as standards
- +/-5 to +/- 20 ppm pull range
- Clipped Sine or CMOS output
- Standard 3.2 x 5 mm ceramic SMD package
- Analog Frequency vs.
 Temperature compensation technique
- Excellent for GPS Applications
- RoHS-6 Lead-free compliant

Frequency Range, Operating Temperature, and Frequency Stability:

Frequency				
Range				
10 to 52 MHz				

Operating Ten	nperature
Operating	Product
Temperature	Code
-20 to +70° C	С
-40 to +85° C	D
0 to +55° C	E
-10 to +60° C	F
-30 to +85° C	G

•	ma i requem	cy Stabili
	Frequency	Product
	Stability	Code
	+/- 0.5 ppm	Α
	+/- 1.0 ppm	В
	+/- 1.5 ppm	С
	+/- 2.0 ppm	D
	+/- 2.5 ppm	E

^{**} Not all combinations of frequency stability over temperature available. Consult the factory for your specific requirements.

Aging: (typical at 10 MHz after 30 days continuous operation)

Frequency	Timeframe	Aging	Product Code
10 MHz	1st Year	+/- 1.0 ppm	N/A

Phase Noise:

Frequency	Offset	Phase Noise (Typ.)	Product Code
	1 Hz	- 60 dBc/Hz	
	10 Hz	- 85 dBc/Hz	
10.0 MH=	100 Hz	-115 dBc/Hz	N/A
10.0 MHz	1 KHz	-135 dBc/Hz	N/A
	10 KHz	-148 dBc/Hz	
	100 KHz	-150 dBc/Hz	



3.2 x 5 mm TCVCXO TV105A Series

Supply Voltage (Vs):

	+3.3 Vdc	+5.0 Vdc
Power Supply (Vs)	+/-10%	+/-10%
Product Code	С	D

Current Consumption:

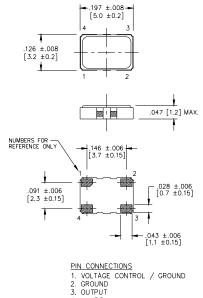
Clipped Sine Wave				
Supply Current	2.5 mA			

Environmental:

Storage Temperature	-55 to +125° C
Storage remperature	-33 10 +123 0

Output Waveform:

output "u" crorini		
	Clipped Sine	HCMOS
	Wave	Output
Product Code	N/A	Н
Output Level	0.8 V p-p min.	10% / 90% Vs
Load	10K // 10 pF	15pF



4. + VDC

Pulling Range:

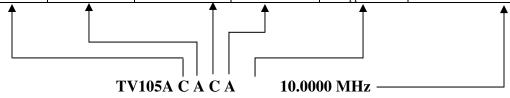
Tuning	None(TCXO)	+/-5 ppm	+/-8 ppm	+/-10 ppm	+/-12 ppm	+/-15 ppm	+/-20 ppm
Range							
Product	T	A	В	C	D	E	F
Code	(Pin 1 – Ground)						

^{**}Note: Maximum pull available dependent upon required temperature stability

Ordering Options:

www.bliley.com

Operating Temperature	Frequency Stability	Supply Voltage	Pulling Range	Output	Operating Frequency
С	A	C	T	N/A	xx.xxxx MHz
D	В	D	A	Н	xx.xxxx MHz
Е	С		В		xx.xxxx MHz
F	D		С		xx.xxxx MHz
G	Е		D		xx.xxxx MHz
			Е		xx.xxxx MHz
			F	Leave Blank for Clipped Sine	xx.xxxx MHz



Product Selection Code (refer to the above example): This part is RoHs compliant, -20 to +70C, +/- 0.50pm, 3.3 volt clipped sine wave with +/- 5 ppm pull, 10MHz operating frequency.

** Not all combinations available in this product