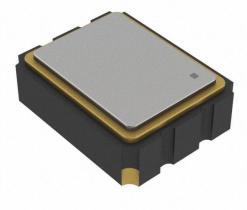


FK4000032 Datasheet

www.digi-electronics.com

М



DiGi Electronics Part Number	FK4000032-DG
Manufacturer	Diodes Incorporated
Ianufacturer Product Number	FK4000032
Description	XTAL OSC XO 40.0000MHZ CMOS SMD
Detailed Description	40 MHz XO (Standard) CMOS Oscillator 3.3V Enable /Disable 4-SMD, No Lead

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
FK4000032	Diodes Incorporated
Series:	Product Status:
SaRonix-eCera™ FK	Active
Base Resonator:	Туре:
Crystal	XO (Standard)
Frequency:	Function:
40 MHz	Enable/Disable
Output:	Voltage - Supply:
CMOS	3.3V
Frequency Stability:	Absolute Pull Range (APR):
±25ppm	
Operating Temperature:	Current - Supply (Max):
-20°C ~ 70°C	10mA
Ratings:	Mounting Type:
	Surface Mount
Package / Case:	Size / Dimension:
4-SMD, No Lead	0.126" L x 0.098" W (3.20mm x 2.50mm)
Height - Seated (Max):	Current - Supply (Disable) (Max):
0.045" (1.15mm)	10μΑ

Environmental & Export classification

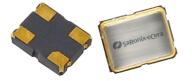
RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	



FK Series Crystal Clock Oscillator (XO) 3.2 x 2.5mm

3.3V CMOS Low Jitter XO





3.2 x 2.5mm Ceramic SMD

Product Features

- •1 to 156.25 MHz Frequency Range
- •<1 ps RMS jitter
- •3.3V CMOS compatible logic levels
- Designed for standard reflow and washing techniques
- Low power standby mode
- Pb-free and RoHS/Green compliant

Product Description

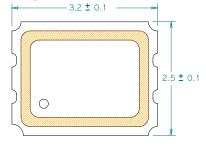
The FK Series 3.3V crystal clock oscillator achieves superb stability and low power consumption over a broad range of operating conditions and frequencies. The low jitter output clock signal, generated internally with a non-PLL oscillator design, is compatible with LVCMOS logic levels. The device, available on tape and reel, is contained in a 3.2 x 2.5mm surface-mount ceramic package.

Applications

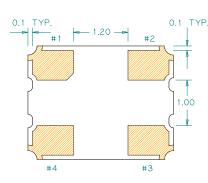
Ideal for compact, high-density applications requiring low power or tight stability, including:

- Network adapter cards
- Portable Multimedia Devices
- Hard Disk Drives
- •GPS/Navigation
- Bluetooth
- •802.11a/b/g WiFi

Package:







Pin Functions:

Pin	Function			
1	OE			
2	Ground			
3	Clock Output			
4	V _{DD}			

Part Ordering Information:



Optimized Control Code
Security of the security of

Following the above format, Saronix-eCera part numbers will be assigned upon confirmation of exact customer requirements.

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3.3V CMOS Low Jitter XO **FK**

SaRonix-eCera

FK Series Crystal Clock Oscillator (XO) 3.2 x 2.5mm

Electrical Performance

	Parameter	Min.	Тур.	Max.	Units	Notes
Output Frequen	icy	1		156.25	MHz	As specified
Supply Voltage		2.97	3.3	3.63	V	
Supply Current	Output Enghlad			10	mA	1 to 50 MHz
Supply Current	, Output Enabled			18		50 to 156.25 MHz
Supply Current	, Standby Mode			10	μΑ	Output Hi-Z
Frequency Stab	ility			±20 to ±50	ppm	See Note 1 below
Operating Tem	poratura Danga	-20		+70	°C	Commercial (standard)
Operating reinj	perature Kange	-40		+85	C	Industrial (standard)
Output Logic 0	, V _{OL}			$10\% V_{DD}$	V	
Output Logic 1,	, V _{OH}	90% V _{DD}			V	
Output Load				15	pF	
Duty Cycle		45		55	%	Measured 50% V _{DD}
Rise and Fall Ti	ime			5	ns	Measured 10/90% of waveform
Jitter, Phase	1 to 156.25 MHz			1	ps RMS (1-σ)	12kHz to 20 MHz frequency band
Jitter,	up to 75 MHz 5	5	DMG (1) 20,000 - 1'	20,000 adjacent perioda		
Accumulated	75 to 156.25 MHz			3	ps RMS (1-σ)	20.000 adjacent periods
Jitter,	up to 75 MHz			50	na nlt nlt	100 000 rendem neriede
Total	75 to 156.25 MHz			30	ps pk-pk	100.000 random periods

Notes:

1. Stability includes all combinations of operating temperature, load changes, rated input (supply) voltage changes, initial calibration tolerance (25°C),

aging (1 year at 25°C average effective ambient temperature), shock and vibration.

2. For specifications othere than those listed, please contact sales.

Output Enable / Disable Function

Parameter	Min.	Тур.	Max.	Units	Notes
Input Voltage (pin 1), Output Enable	0.7 V _{DD}			V	or open
Input Voltage (pin 1), Output Disable (low power standby)			0.3 V _{DD}	V	Output is Hi-Z
Internal Pullup Resistance	50			kΩ	
Output Disable Delay			100	ns	
Output Enable Delay			10	ms	

Absolute Maximum Ratings

Parameter	Min.	Тур.	Max.	Units	Notes
Storage Temperature	-55		+125	°C	

For the latest product information visit: http://www.pericom.com/products/timing/oscillators/FK3.3/

For test circuit go to: http://www.pericom.com/pdf/sre/tc_hcmos2.pdf

For soldering reflow profile and reliability test ratings go to: <u>http://www.pericom.com/pdf/sre/reflow.pdf</u>

For tape and reel information go to: http://www.pericom.com/pdf/sre/tr_3225_xo.pdf

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