

SUNSTAR商斯达实业集团是集研发、生产、工程、销售、代理经销、技术咨询、信息服务等为一体的高科技企业，是专业高科技电子产品生产厂家，是具有 10 多年历史的专业电子元器件供应商，是中国最早和最大的仓储式连锁规模经营大型综合电子零部件代理分销商之一，是一家专业代理和分销世界各大品牌 IC 芯片和电子元器件的连锁经营综合性国际公司。在香港、北京、深圳、上海、西安、成都等全国主要电子市场设有直属分公司和产品展示展销窗口门市部专卖店及代理分销商，已在全国范围内建成强大统一的供货和代理分销网络。我们专业代理经销、开发生产电子元器件、集成电路、传感器、微波光电元器件、工控机/DOC/DOM 电子盘、专用电路、单片机开发、MCU/DSP/ARM/FPGA 软件硬件、二极管、三极管、模块等，是您可靠的一站式现货配套供应商、方案提供商、部件功能模块开发配套商。专业以现代信息产业（计算机、通讯及传感器）三大支柱之一的传感器为主营业务，专业经营各类传感器的代理、销售生产、网络信息、科技图书资料及配套产品设计、工程开发。我们的专业网站——中国传感器科技信息网（全球传感器数据库）www.SENSOR-IC.COM 服务于全球高科技生产商及贸易商，为企业科技产品开发提供技术交流平台。欢迎各厂商互通有无、交换信息、交换链接、发布寻求代理信息。欢迎国外高科技传感器、变送器、执行器、自动控制产品厂商介绍产品到中国，共同开拓市场。本网站是关于各种传感器-变送器-仪器仪表及工业自动化大型专业网站，深入到工业控制、系统工程计 测量、自动化、安防报警、消费电子等众多领域，把最新的传感器-变送器-仪器仪表买卖信息，最新技术供求，最新采购商，行业动态，发展方向，最新的技术应用和市场资讯及时的传递给广大科技开发、科学研究、产品设计人员。本网站已成功为石油、化工、电力、医药、生物、航空、航天、国防、能源、冶金、电子、工业、农业、交通、汽车、矿山、煤炭、纺织、信息、通信、IT、安防、环保、印刷、科研、气象、仪器仪表等领域从事科学研究、产品设计、开发、生产制造的科技人员、管理人员、和采购人员提供满意服务。我们公司专业开发生产、代理、经销、销售各种传感器、变送器、敏感元器件、开关、执行器、仪器仪表、自动化控制系统：专门从事设计、生产、销售各种传感器、变送器、各种测控仪表、热工仪表、现场控制器、计算机控制系统、数据采集系统、各类环境监控系统、专用控制系统应用软件以及嵌入式系统开发及应用等工作。如热敏电阻、压敏电阻、温度传感器、湿度变送器、湿度传感器、气体变送器、气体传感器、压力传感器、压力变送、称重传感器、物（液）位传感器、物（液）位变送器、流量传感器、流量变送器、电流（压）传感器、溶氧传感器、霍尔传感器、图像传感器、超声波传感器、位移传感器、速度传感器、加速度传感器、扭距传感器、红外传感器、紫外传感器、火焰传感器、激光传感器、振动传感器、轴角传感器、光电传感器、接近传感器、干簧管传感器、继电器传感器、微型电泵、磁敏（阻）传感器、压力开关、接近开关、光电开关、色标传感器、光纤传感器、齿轮测速传感器、时间继电器、计数器、计米器、温控仪、固态继电器、调压模块、电磁铁、电压表、电流表等特殊传感器。同时承接传感器应用电路、产品设计和自动化工程项目。

欢迎索取免费详细资料、设计指南和光盘；产品凡多，未能尽录，欢迎来电查询。

更多产品请看本公司产品专用销售网站：

商斯达中国传感器科技信息网：<http://www.sensor-ic.com/>

商斯达工控安防网：<http://www.pc-ps.net/>

商斯达电子元器件网：<http://www.sunstare.com/>

商斯达微波光电产品网：[HTTP://www.rfoe.net/](http://www.rfoe.net/)

商斯达消费电子产品网：<http://www.icasic.com/>

商斯达军工产品网：<http://www.junpinic.com/>

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技术支持：0755-83394033 13501568376



PRODUCT SELECTION GUIDE

Timing Modules | Precision Crystal Oscillators | Hi-Rel / COTS Oscillators

ABOUT VALPEY FISHER

Valpey Fisher Corporation (AMEX:VPF) is a world-leading technology company specializing in low noise timing solutions. From discrete high precision crystal oscillators to highly integrated, low noise timing modules, Valpey Fisher offers its customers a broad array of frequency control products to meet their precision timing needs. Valpey Fisher's products provide the essential timing signals needed in advanced applications including cellular base stations, broadband datacom infrastructure, avionics instrumentation, homeland security equipment, and military defense systems.

Valpey Fisher's unique value to its customers is its ability to provide innovative frequency control design technology, characterized by extremely low phase noise, jitter, and power consumption coupled with high frequency, high reliability, and small size.

Since 1931, Valpey Fisher has cultivated longstanding and trusting relationships with many of the world's major original equipment manufacturers (OEMs) as well as small and emerging businesses throughout the industry.

Valpey Fisher is an ISO9001:2000 approved organization with its corporate headquarters located in a 32,000 square foot research, engineering and manufacturing facility in Hopkinton, MA.

Historical Timeline

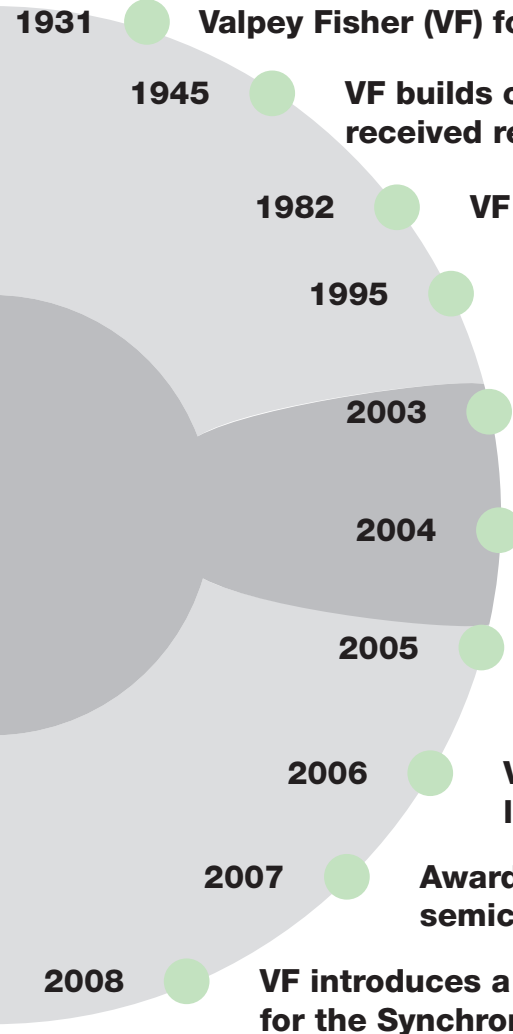
- 
- 1931** Valpey Fisher (VF) founded by Ted Valpey Sr.
 - 1945** VF builds crystal oscillators for War Effort—received recognition from General Eisenhower.
 - 1982** VF goes public on American Stock Exchange.
 - 1995** VF pioneers Inverted Mesa process to increase fundamental frequency to 200MHz.
 - 2003** VF acquires MF Electronics to add depth to its Hi-Rel / COTS military offering.
 - 2004** VF introduces ultra low power OCXOs with 10 ppb stability.
 - 2005** VF introduces 1GHz TCXO, VCXO, XO with Ultra Low Jitter.
 - 2006** Valpey celebrates 75th Birthday—introduces line of Ultra Low Noise Timing Modules.
 - 2007** Awarded multiple reference designs by Tier One semiconductor manufacturers.
 - 2008** VF introduces a line of timing modules with <0.25 ps Jitter for the Synchronous Ethernet market.

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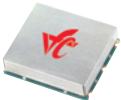
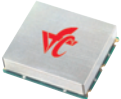
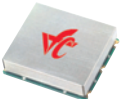
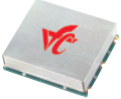
III HI-REL/COTS OSCILLATORS (XO/VCXO)

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PRODUCT SELECTION GUIDE

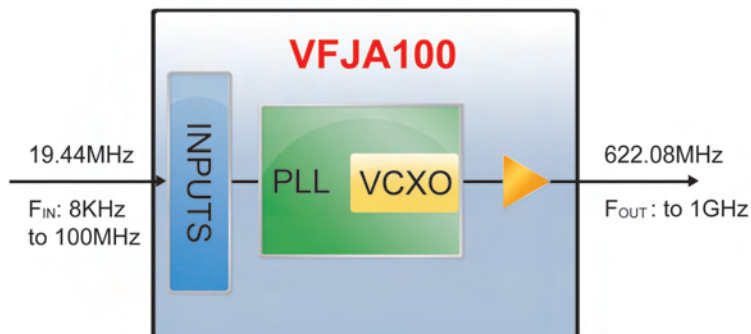
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	PRODUCT SERIES	OUTPUT	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)										JITTER RMS 12KHz to 20MHz
				1KHz	10MHz	20MHz	50MHz	100MHz	200MHz	300MHz	400MHz	600MHz	800MHz	1.0GHz
PECL / LVPECL	 VFJA100	PECL 25.4 X 22.0	5.0V 3.3V	8KHz – 100MHz 1 Input Frequency 1 Output Frequency 100MHz – 1GHz										<0.2ps
	 VFJA400	LVPECL 19.5 x 15.5	3.3V	8KHz – 200MHz 4 Selectable Inputs 10MHz – 200MHz 1 Output Frequency										<0.2ps
	VFJA401	LVPECL 19.5 x 15.5	3.3V	4 Selectable Inputs 200MHz – 800MHz 10MHz – 200MHz 1 Output Frequency										<0.2ps
SINE	 VFJA120	SINE 25.4 x 22.0	5.0V 3.3V	8KHz – 100MHz 1 Input Frequency 10MHz – 200MHz 1 Output Frequency										<0.15ps
CMOS	 VFJA130	CMOS 25.4 x 22.0	5.0V 3.3V	8KHz – 100MHz 1 Input Frequency 10MHz – 200MHz 1 Output Frequency										<0.18ps
	VFJA432	CMOS 19.5 x 15.5	3.3V	8KHz – 200MHz 4 Selectable Inputs 10MHz – 200MHz Dual Outputs										<0.18ps
	VFJA434	CMOS 19.5 x 15.5	3.3V	8KHz – 200MHz 4 Selectable Inputs 10MHz – 200MHz Quad Outputs										<0.18ps
SYNC-E	 NEW VFJA905	LVC MOS 19.5 x 15.5	3.3V	2.5MHz 25MHz 125MHz 3 Input Frequencies with Free Run Mode 25MHz Dual Outputs										<0.2ps
	 NEW VFJA910	LVC MOS 15.0 x 13.0	3.3V	25MHz 1 Input Frequency with Free Run Mode 25MHz Dual Outputs										<0.25ps
	 NEW VFJA911	LVC MOS 15.0 x 13.0	3.3V	25MHz 1 Input Frequency with Free Run Mode 25MHz Dual Outputs										<0.25ps

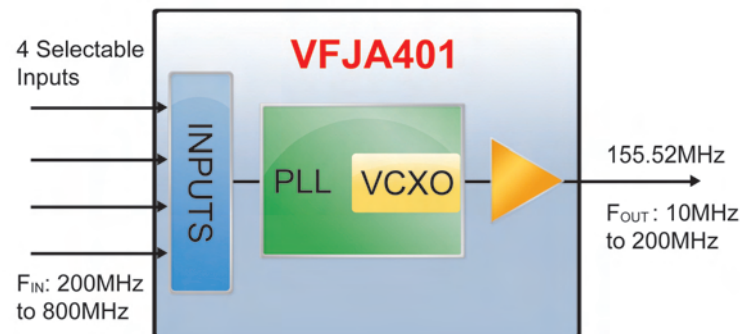
Limited product offering shown. Please visit www.valpeyfisher.com for our full line of Jitter Attenuators.

PRODUCT SELECTION GUIDE

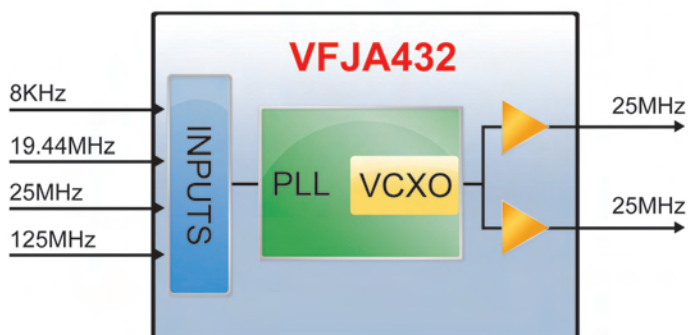
**Jitter Attenuator
for SONET/SDH/ATM**



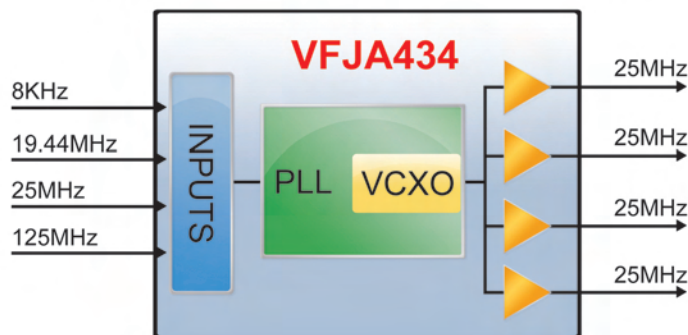
**Jitter Attenuator with Quad
Selectable Input Frequency**



**Dual Output Jitter Attenuator for
Synchronizing Ethernet Networks**



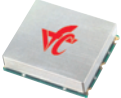
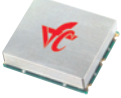
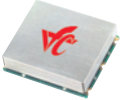
**Quad Output Jitter Attenuator for
Synchronizing Ethernet Networks**



PRODUCT SELECTION GUIDE

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FREQUENCY TRANSLATORS

		PRODUCT SERIES	OUTPUT	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)										JITTER RMS		
					1KHz	10MHz	20MHz	50MHz	100MHz	200MHz	300MHz	400MHz	600MHz	800MHz	1.0GHz	1.5GHz	12KHz to 20MHz
PECL / LVPECL		VFFT100	PECL 25.4 X 22.0	5.0V 3.3V	8KHz – 250MHz 1 Input Frequency 1 Output Frequency 50MHz – 1GHz										<0.3ps		
		VFFT110	LVPECL 19.5 x 17.0	3.3V	10KHz – 800MHz 1 Input Frequency 4 Selectable Outputs 300MHz – 1.5GHz										<1.0ps		
		VFFT200	LVPECL 19.5 x 20.5	3.3V	8KHz – 200MHz 1 Input Frequency 50MHz – 200MHz 1 Output Frequency w/10ppm Holdover										<1.0ps		
		VFFT400	LVPECL 19.5 x 17.0	3.3V	8KHz – 200MHz 4 Input Frequencies 50MHz – 400MHz 4 Output Frequencies 50MHz Range										<2.0ps		
		VFFT401	LVPECL 19.5 x 17.0	3.3V	100MHz – 800MHz 4 Input Frequencies 4 Output Frequencies 100MHz Range 400MHz – 1.5GHz										<1.0ps		
	SINE		VFFT120	SINE 25.4 x 22.0	5.0V 3.3V	8KHz – 180MHz 1 Input Frequency 10MHz – 200MHz 1 Output Frequency										<0.15ps	
CMOS				VFFT130	CMOS 25.4 x 22.0	5.0V 3.3V	8KHz – 180MHz 1 Input Frequency 10MHz – 200MHz 1 Output Frequency										<0.15ps

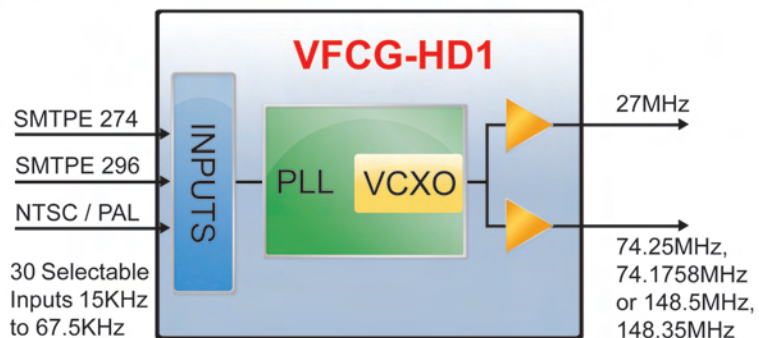
CLOCK GENERATORS

	PRODUCT SERIES	OUTPUT	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)											JITTER RMS 12KHz to 20MHz
				1KHz	10MHz	20MHz	50MHz	100MHz	200MHz	300MHz	400MHz	600MHz	800MHz	1.0GHz	
	VFCG100	LVPECL 19.5 x 17.0	3.3V	4 Selectable Output Frequencies 300MHz – 1.5GHz											<1.0ps
	NEW VFCG-HD1	HCMOS 22 x 22	3.3V	15KHz – 67.5KHz 30 Selectable Inputs 27MHz – 148.35MHz Outputs 27MHz and either 74.25MHz or 74.175MHz											<2.0ps

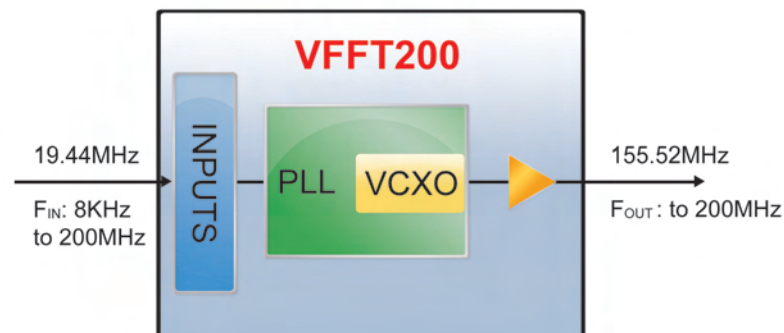
Limited product offering shown. Please visit www.valpeyfisher.com for our full line of Timing Modules.

PRODUCT SELECTION GUIDE

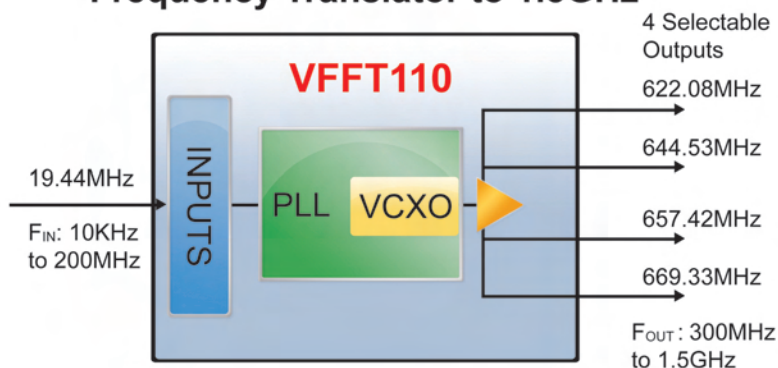
Synchronous Clock Generator for Standard & High Definition Video Broadcast



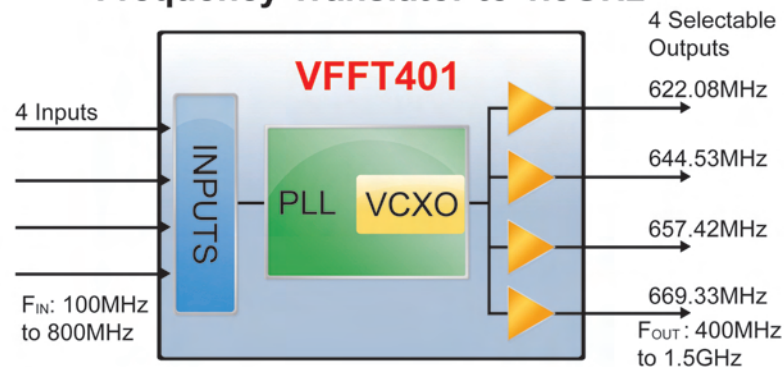
SONET Frequency Translator with 10ppm Automatic Holdover



Quad Selectable Output Frequency Translator to 1.5GHz



Quad Selectable Output Frequency Translator to 1.5GHz



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Miniature, Ultra Stable OCXOs

 25.4mm x 22.0mm	NEW VFOV100	CMOS/SINE	3.3V 5.0V 12.0V	5MHz – 120MHz	1.0W	±10ppb	-40°C to +85°C	-168
	VFOV110		5.0V 12.0V	25MHz – 135MHz	1.2W	±200ppb	-40°C to +85°C	-174
VFOV200	3.3V 5.0V 12.0V		5MHz – 250MHz	1.0W	±2ppb	-40°C to +85°C	-160	
NEW VFOV300	5.0V 12.0V		8MHz – 100MHz	1.25W	±0.5ppb	-30°C to +70°C	-165	

Micro-Miniature, Ultra Low Power OCXOs

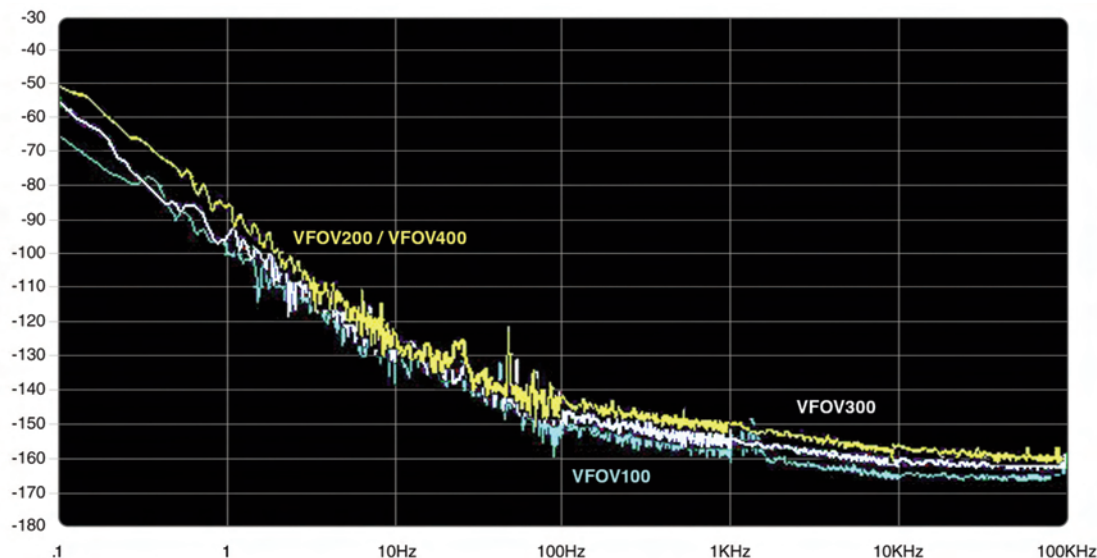
 15.1mm x 15.1mm  20.5mm x 14.0mm	VFOV400	CMOS/SINE	3.3V 5.0V	5MHz – 250MHz			0.12W	±5ppb	-40°C to +85°C	-165
	VFOV500	CMOS/TTL	3.3V 5.0V	30MHz – 120MHz			0.12W	±20ppb	-40°C to +85°C	-160

Limited product offering shown. Please visit www.valpeyfisher.com for our full line of OCXOs.

*,** – Not all stabilities available with all temperature ranges.

PRODUCT SELECTION GUIDE

OCXO Phase Noise Comparison at 10MHz



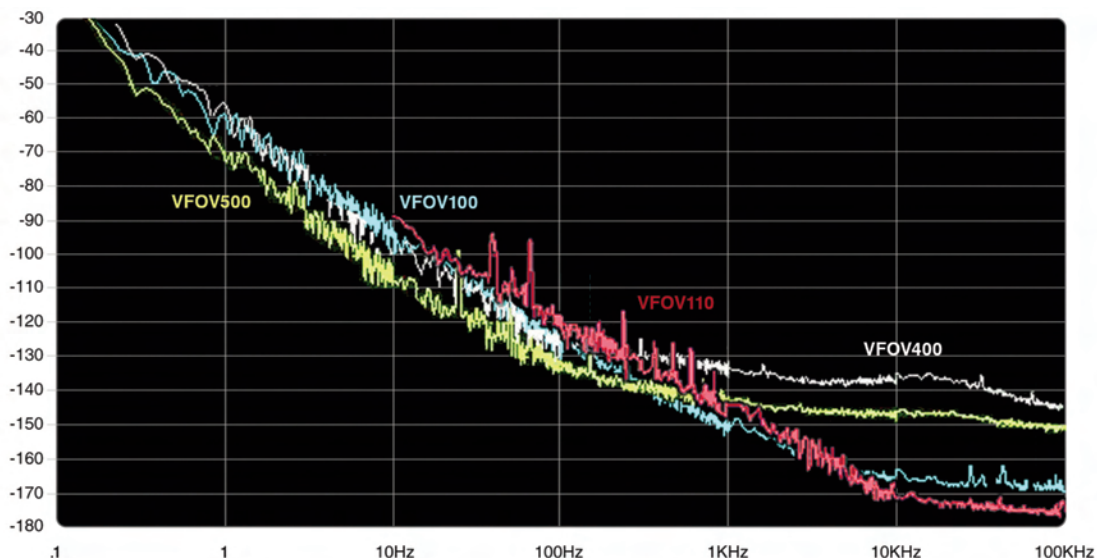
VFOV100 Ultra low noise performance is provided by using High Q fundamental SC cut crystals. Available up to 120MHz. For 100MHz see below.

VFOV200 is the industry's standard low noise SC cut OCXO. Available in very high frequencies incorporating an analog multiplier.

VFOV300 double oven is Stratum II compliant and is a suitable low cost replacement for Rubidium clocks and an excellent choice for GPS hold-over circuits. Ruggedized version available.

VFOV400 is the world's smallest, fastest warm up OCXO (<30sec.) and lowest power consumption (typ. 120mW). Available in very high frequencies incorporating an analog multiplier. For 100MHz see below.

OCXO Phase Noise Comparison at 100MHz



VFOV110 uses proprietary technology to achieve a superior noise floor at 10KHz matching the worlds best performance in a smaller 0.8"x1" SMD package and is very competitively priced. Applications include Wireless Point to point, ADC reference, RADAR and SATCOM.

VFOV500 is the world's smallest, fastest warm up OCXO (<30sec.) and lowest power consumption (typ.120mW). Applications include SARSAT and portable test equipment. Very low phase noise fundamental mode crystal.

PRODUCT SELECTION GUIDE

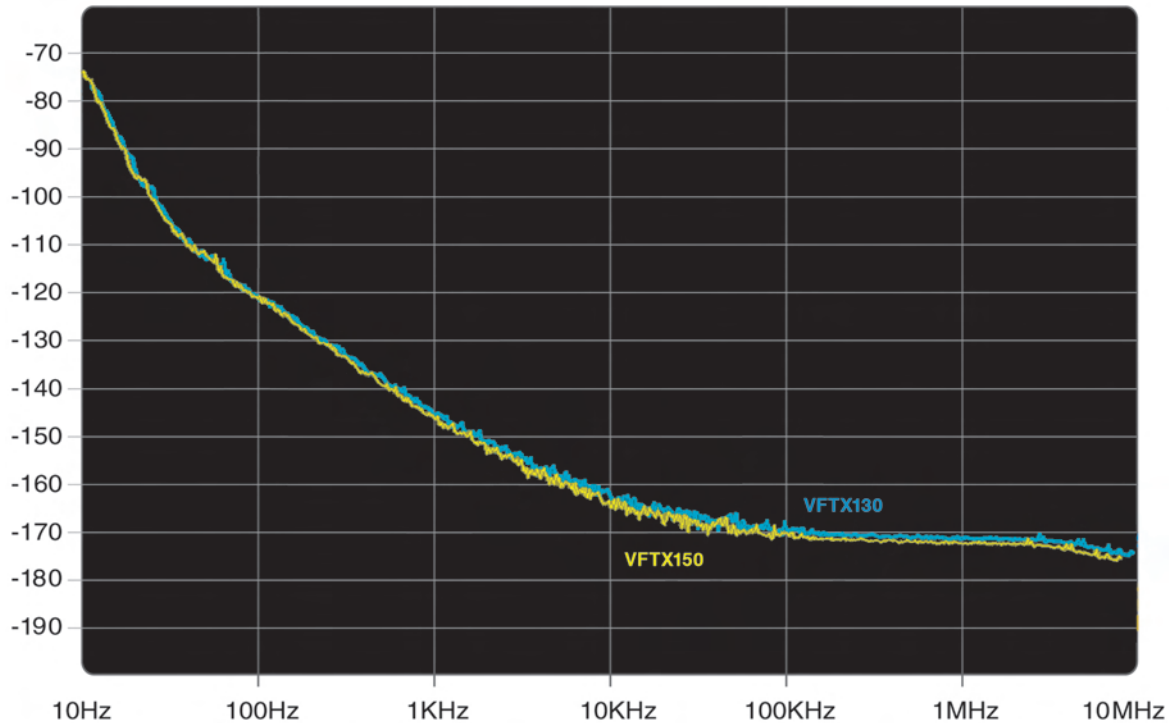
	PRODUCT SERIES	PACKAGE SIZE (mm)	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)							TEMP. STABILITY* (MAX)	OPERATING TEMPERATURE**
				5	20	100	200	400	600	800	1000	
CLIPPED SINE	 VFTX300	3.2 x 2.5	3.0V 5.0V	10MHz – 40MHz							±0.5ppm	-40°C to +85°C
	 VFTX301	5.0 x 3.2	3.0V 5.0V	10MHz – 40MHz							±0.5ppm	-40°C to +85°C
	 VFTX302	5 x 7	3.3V 5.0V	10MHz – 40MHz							±0.5ppm	-40°C to +85°C
	 VF720/VF721	11.4 x 9.6	3.3V 5.0V	10MHz – 40MHz							±2.5ppm	-30°C to +75°C
CMOS	 NEW VFTX332 STRATUM III	5 x 7	3.3V 5.0V	10MHz – 26MHz							±0.28ppm	-40°C to +85°C
	 NEW VFTX160 STRATUM III	25.4 x 22.0	3.3V	10MHz – 200MHz							±0.28ppm	0°C to +70°C
	VFTX130			30MHz – 180MHz							±0.5ppm	-40°C to +85°C
SINE	 VFTX120	25.4 x 22.0	3.3V	30MHz – 180MHz							±0.5ppm	0°C to +70°C
	 NEW VFTX150 STRATUM III			10MHz – 200MHz							±0.28ppm	0°C to +70°C
	 VFTX110	35.4 x 26.7	5.0V	50MHz – 1000MHz							±0.5ppm	-40°C to +85°C
LVPECL	 NEW VFTX140 STRATUM III	25.4 x 22.0	3.3V	200MHz – 1000MHz							±0.28ppm	0°C to +70°C
	VFTX100		3.3V 5.0V	200MHz – 1000MHz							±0.5ppm	-40°C to +85°C

Limited product offering shown. Please visit www.valpeyfisher.com for our full of TCXOs.

*,** – Other stability and operating temperature ranges available.

PRODUCT SELECTION GUIDE

TCXO Phase Noise Comparison at 100MHz



VFTX130 provides ultra low noise and stability in high frequency. Perfect for demanding optical applications Gigabit Ethernet and wireless reference.

VFTX150 provides ultra low noise and STRATUM 3 stability in high frequency. An exceptional timing source for demanding optical applications with no need to implement any frequency multiplication.

PRODUCT SELECTION GUIDE

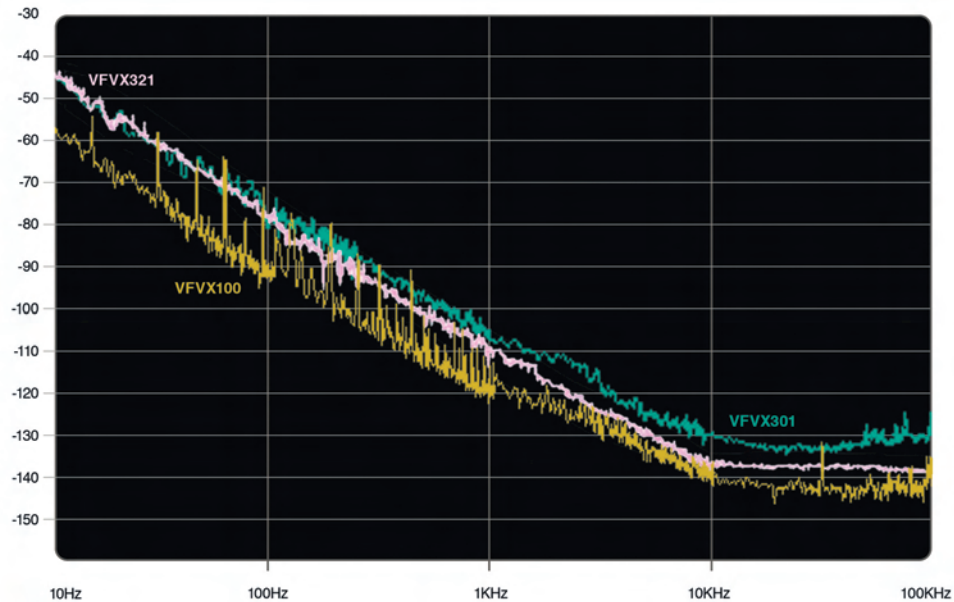
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	PRODUCT SERIES	PACKAGE SIZE (mm)	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)							JITTER RMS (12KHz ~ 20MHz)	APR (MINIMUM)
				1	50	100	200	300	400	600	800	1000
CMOS	 VF194/VF294	5 x 7	3.3V 5.0V	1.5MHz – 160MHz							<0.4ps typical	±50ppm
	R3306		3.3V	1.8MHz – 80MHz							<0.15ps typical	±100ppm
	 VF594 JLEAD	9 x 14	3.3V 5.0V	1.5MHz – 160MHz							<0.5ps typical	±50ppm
	 VFVX130			19MHz – 200MHz							<0.2ps typical	±35ppm
LVPECL / LVDS	 VFVX301	5 x 7	2.5V 3.3V	38MHz – 680MHz							<0.4ps typical	±150ppm
	 VFVX321			60MHz – 800MHz							<0.1ps typical	±100ppm
PECL/LVPECL	 VF596 JLEAD	9 x 14	3.3V 5.0V	19.44MHz – 200MHz							<0.5ps typical	±50ppm
	VFVX100			200MHz – 1000MHz							<0.2ps typical	±35ppm
	VFVX110			200MHz – 1000MHz							<0.2ps typical	±50ppm
	VFVX120			19MHz – 200MHz							<0.2ps typical	±35ppm

Limited product offering shown. Please visit www.valpeyfisher.com for our full of VCXOs.

PRODUCT SELECTION GUIDE

VCXO Phase Noise Comparison at 622.08MHz PECL



VFVX100 is ideal for universal edge QAM and is the industry's lowest phase noise oscillator at 1GHz. An ideal choice for demanding optical applications requiring low jitter. Also the perfect choice to drive DDS circuits to achieve high frequency low noise RF output.

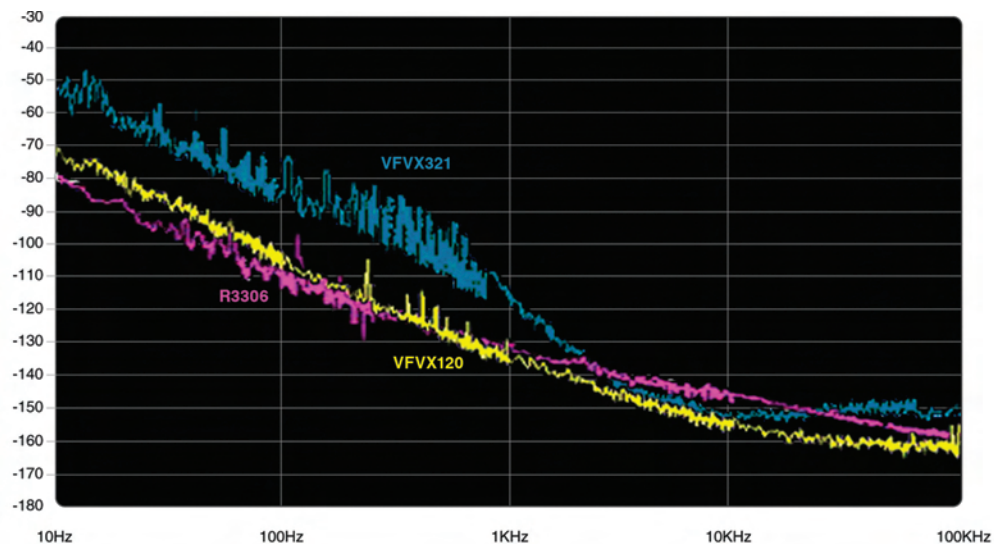
VFVX301 is a cost effective 5x7mm smd solution that meets OC48 and OC192 requirements. No multiplication is required to achieve your SONET frequencies.

VFVX321 is the latest offering from Valpey Fisher incorporating the newest low noise technology in a cost effective 5x7mm SMD package. An excellent choice when looking for a cost reduced alternative to SAW devices.

VFVX120 provides the industry's best phase noise performance with wide pull options available.

R3306 series is an ideal low jitter VCXO for high definition broadcast video and optical applications.

VCXO Phase Noise Comparison at 74.25MHz (3.3V)



PRODUCT SELECTION GUIDE

RoHS
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		PRODUCT SERIES	PACKAGE SIZE (mm)	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)								TEMP. STABILITY (TYP)*	OPERATING TEMPERATURE**	JITTER RMS (12KHz-20MHz)	
					500KHz	50MHz	100	200	300	400	600	800	1000MHz			
CMOS		VFXO203	3.2 x 2.5	1.8V 2.5V 3.3V	800KHz – 110MHz									±20ppm	-40°C to +85°C	<20ps
		VFXO202	5.0 x 3.2		1MHz – 220MHz									±20ppm	-40°C to +85°C	<1ps
		VF3	5 x 7	3.3V	1.8MHz – 160MHz									±20ppm	-40°C to +85°C	<20ps
		VF540	9 x 14	3.3V	2MHz – 130MHz									± 20ppm	-55°C to +125°C	<20ps
PECL/LVDS		VFXO301	5 x 7	3.3V 5.0V	38MHz – 680MHz									±20ppm	-40°C to +85°C	<0.4ps
		 VFXO321			60MHz – 800MHz									±20ppm	-40°C to +85°C	<0.1ps
		 VFXO401			15MHz – 320MHz									±20ppm	-40°C to +85°C	<0.7ps
PECL		VFXO100	9 x 14	3.3V	180MHz – 1000MHz									±20ppm	-40°C to +85°C	<0.2ps
		VFXO110			19MHz – 200MHz									±20ppm	-40°C to +85°C	<0.4ps

Limited product offering shown. Please visit www.valpeyfisher.com for our full line of XOs.

*,** - Other stability and operating temperature ranges available.

PRODUCT SELECTION GUIDE



		PRODUCT SERIES	PACKAGE SIZE (mm)	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)								STABILITY	OPERATING TEMPERATURE	
					500KHz	1MHz	20	50	100	200	400	800	1000MHz		
Hi-Rel	CMOS		VFH240C	5x7	2.5V 3.3V	38MHz - 640MHz								±75ppm	-55°C to 125°C
			VFH2321	5x7	1.8V	850KHz - 165MHz								±50ppm	-55°C to 125°C
			VFH2121		3.3V 5.0V	500KHz - 125MHz								±50ppm	-55°C to 125°C
			T5321/T5421		3.3V	1MHz - 100MHz								±25ppm	-55°C to 125°C
			T5621/T5721		5.0V	16MHz - 150MHz								±25ppm	-55°C to 125°C
			M5500	DIP14	5.0V	1Hz - 125MHz								±50ppm	-55°C to 125°C
			M6306 VCXO			1MHz - 35MHz								±50ppm	-55°C to 125°C
			M1254/M3254			20KHz - 150MHz								±75ppm	-55°C to 200°C
			T1250/T3250	5x7	5.0V	20KHz - 100MHz								±75ppm	-55°C to 200°C
			T7250/T9250		3.3V	20KHz - 100MHz								±75ppm	-55°C to 200°C

Limited product offering shown. Please visit www.valpeyfisher.com for our full line of Hi-Rel/COTS.

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