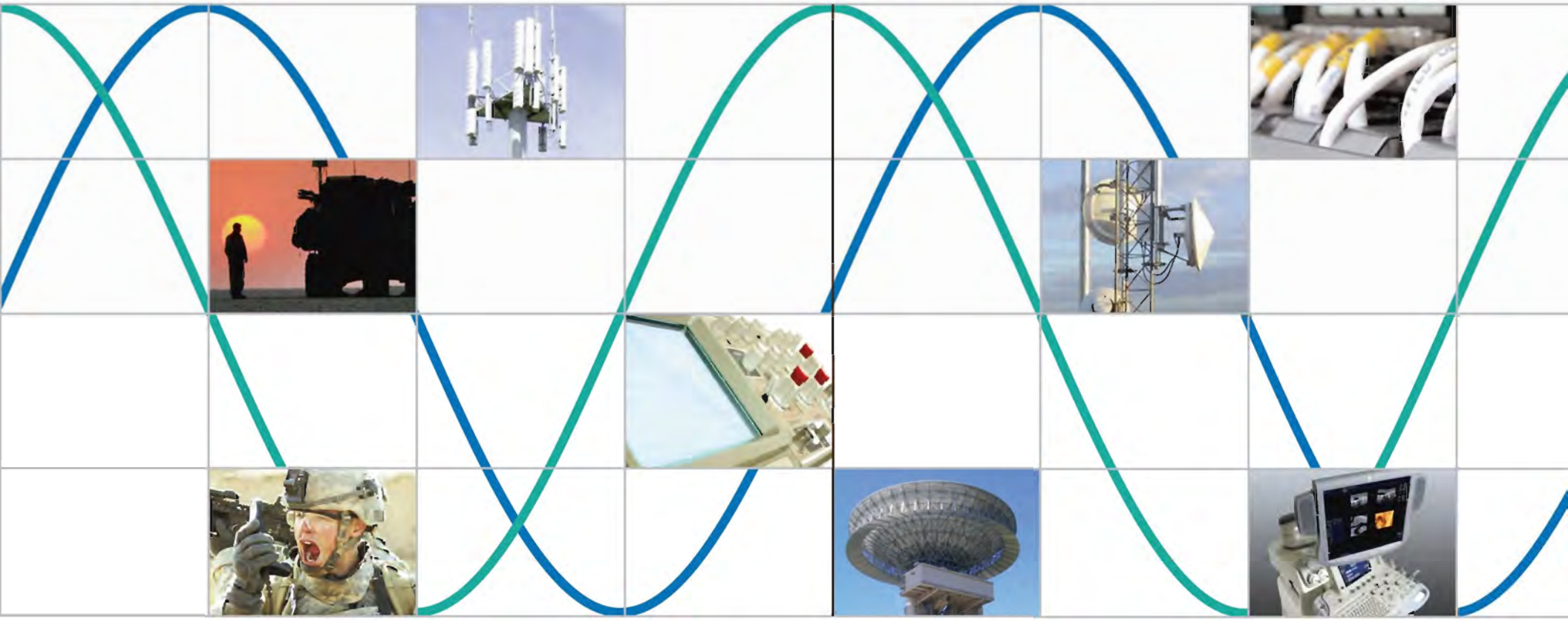
CTS® Valpey Corporation

PRODUCT SELECTION GUIDE



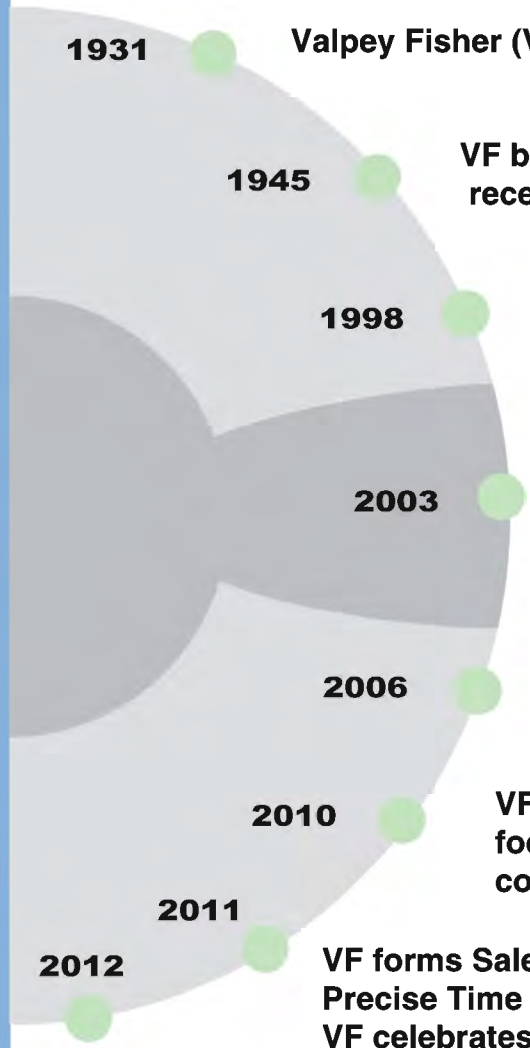
CTS Valpey Corporation

CTS Valpey Corporation is a global leader in the design, development, and manufacture of high-accuracy subsystems integrated into digital and optical telecommunications systems in use throughout the world of voice, data, and military communications. CTS Valpey is the preferred supplier of the electronic components and subsystems that drives many high-tech businesses.

Companies pick CTS Valpey for its long history of technology innovation, its high-quality precision products, and its top-to-bottom commitment to customers to provide and support custom solutions that meet their evolving needs. CTS Valpey's products enable communications system vendors to increase network data capacity and improve voice and video quality.

Through its broad range of timing, control and measurement solutions that deliver high performance, uncompromised precision, and consistent reliability – CTS Valpey partners with customers to help them succeed in the markets they compete in including wireless and wireline infrastructure, microwave radio, military communications, instrumentation, imaging and industrial applications.

CTS Valpey Corporation is a subsidiary of the parent company, CTS Corporation (NYSE: CTS).



1931 Valpey Fisher (VF) founded by Ted Valpey Sr.

1945 VF builds crystal oscillators for War Effort - receives recognition from General Eisenhower.

1998 VF adds a line of Ultrasonic Transducers for nondestructive testing.

2003 VF acquires MF Electronics to add depth to its Hi-Rel / COTS military offering.

2006 VF celebrates 75th birthday - introduces line of ULtra Low Noise Timing Modules.

2010 VF introduces a line of Microwave Products to focus on the next generation of wireless communications and data networks.

2011 VF forms Sales and Marketing partnership with Precise Time & Frequency Inc.

2012 VF celebrates 80th year of engineer excellence.

VF is acquired by CTS Corporation.

VOLTAGE VARIABLE ATTENUATORS

PRODUCT SELECTION GUIDE

RoHS 6/6

	PART NUMBER	FREQUENCY RANGE (500MHz – 1.0GHz – 1.5GHz – 2.0GHz – 2.5GHz – 3.0GHz – 3.5GHz – 4.0GHz)	CONTROL VOLTAGE	ATTENUATION RANGE	IIP3
LTE	VFVA500-200	600 - 900MHz	5.0V	23 dB	45 dBm
GSM / WCMDA	VFVA501-200	0.7 - 1.1GHz	5.0V	23 dB	45 dBm
PCS, DCS, UMTS,AWS	VFVA502-200	1.5 - 2.2GHz	5.0V	23 dB	45 dBm
PCS, DCS, UMTS,AWS	VFVA503-200	1.8 - 2.4GHz	5.0V	23 dB	45 dBm
LTE / WiMax	VFVA504-200	2 - 3GHz	5.0V	23 dB	45 dBm
LTE / WiMax	VFVA505-200	3 - 4GHz	5.0V	23 dB	45 dBm

3.2 x 4.9 mm

90 DEGREE HYBRID COUPLERS

RoHS 6/6

1.5 x 2.0 mm

	PART NUMBER	FREQUENCY RANGE	INSERTION LOSS	ISOLATION	VSWR
		500MHz 1.0GHz 1.5GHz 2.0GHz 2.5GHz 3.0GHz 3.5GHz 4.0GHz			
LTE	VFHY100-010	650 - 850MHz	0.30 dB	30 dB	1.1 : 1
GSM / WCMDA	VFHY101-010	750 - 950MHz	0.30 dB	30 dB	1.1 : 1
	VFHY102-010	0.8 - 1GHz	0.30 dB	30 dB	1.1 : 1
PCS, DCS, UMTS,AWS	VFHY103-010	1.6 - 2GHz	0.30 dB	30 dB	1.1 : 1
	VFHY104-010	1.7 - 2.2GHz	0.30 dB	30 dB	1.1 : 1
	VFHY105-010	1.9 - 2.4GHz	0.35 dB	30 dB	1.1 : 1
LTE / WiMax	VFHY106-010	2.2 - 2.9GHz	0.35 dB	30 dB	1.1 : 1
	VFHY107-010	3 - 4GHz	0.35 dB	30 dB	1.1 : 1

2-WAY POWER DIVIDERS

RoHS 6/6

	PART NUMBER	FREQUENCY RANGE	INSERTION LOSS	ISOLATION	VSWR INPUT/OUTPUT
LTE	VFPD200-010	698 - 798MHz	0.35 dB	23 dB	1.15 / 1.15
GPS/GSM/ WCMDA	VFPD201-010	820 - 960MHz	0.35 dB	23 dB	1.15 / 1.15
PCS, DCS, UMTS,AWS	VFPD202-010	1.4 - 1.7GHz	0.4 dB	20 dB	1.15 / 1.15
	VFPD203-010	1.7 - 2GHz	0.4 dB	20 dB	1.20 / 1.15
LTE / WiMax	VFPD204-010	2 - 2.3GHz	0.4 dB	20 dB	1.15 / 1.15
	VFPD205-010	2.4 - 2.7GHz	0.4 dB	20 dB	1.15 / 1.15
	VFPD206-010	3.3 - 3.8GHz	0.45 dB	16 dB	1.50 / 1.30

1.5 x 2.0 mm

RoHS 6/6

CTS

1.5 x 2.0 mm

PART NUMBER	FREQUENCY	ATTENUATION VALUE (dB) ±5%	FLATNESS	VSWR
VFAT003-010	DC - 8GHz	3 dB	0.2 dB	1.15 : 1
VFAT006-010	DC - 8GHz	6 dB	0.2 dB	1.2 : 1
VFAT010-010	DC - 8GHz	10 dB	0.3 dB	1.2 : 1
VFAT020-010	DC - 8GHz	20 dB	0.4 dB	1.2 : 1

Timing Modules

JITTER ATTENUATORS

PRODUCT SELECTION GUIDE

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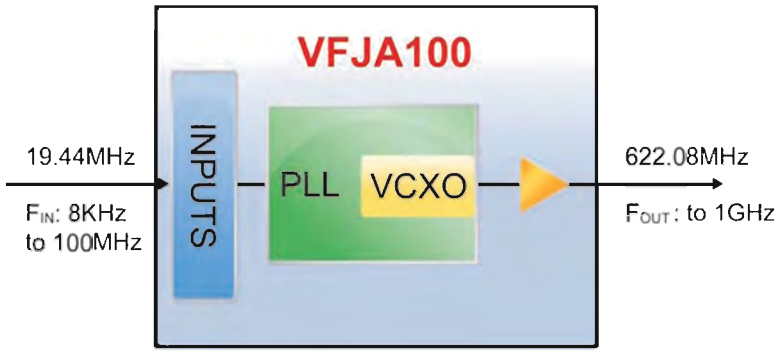
	PRODUCT SERIES	OUTPUT	SUPPLY VOLTAGE	FREQUENCY RANGE	JITTER RMS 12KHz to 20MHz
PECL / LVPECL	VFJA100	PECL 25.4 x 22.0	5.0V 3.3V	8KHz - 100MHz, 1 Input Frequency; 1 Output Frequency 100MHz - 1GHz	<0.2ps
	VFJA400	LVPECL 19.5 x 15.5	3.3V	8KHz - 200MHz, 4 Selectable Inputs; 10MHz - 200MHz, 1 Output Frequency	<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	VFJA402	LVPECL 19.5 x 15.5	3.3V	8KHz - 200MHz, 3 Inputs Frequencies with Free Run Mode; 10MHz - 200MHz, 1 Output Frequency	<0.2ps
	VFJA905	LVCMOS 19.5 x 15.5	3.3V	2.5MHz, 25MHz, 125MHz, 3 Inputs Frequencies with Free Run Mode; 25MHz Dual Outputs	<0.25ps
	VFJA910	LVCMOS 15.0 x 13.0	3.3V	25MHz, 1 Input Frequency with Free Run Mode; 25MHz Dual Outputs	<0.25ps

Featured product offering shown. Please visit www.ctsvalpey.com for our full line of Jitter Attenuators.

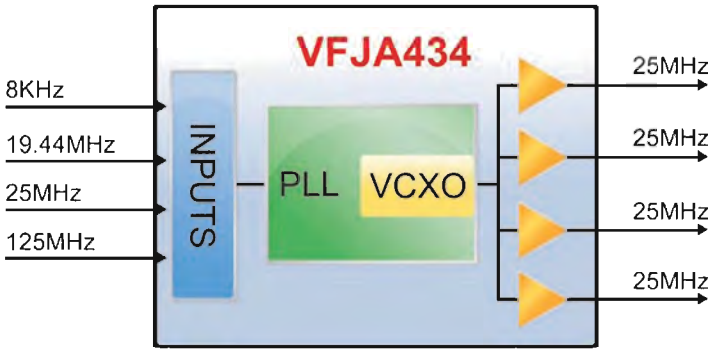
Jitter Attenuator



- Lowest jitter available (<0.2ps)
- Output synchronized to input
- VCXO (crystal) output
- Lock detect available
- Customer defined loop bandwidth

Quad Output Jitter Attenuator

- Up to 4 user selectable inputs
- Inputs can be independent frequencies
- Up to 4 outputs (CMOS and Sine)
- Up to two outputs LVPECL or LVDS



Timing Modules

FREQUENCY TRANSLATORS/ CLOCK GENERATORS

PRODUCT SELECTION GUIDE

RoHS 6/6

FREQUENCY TRANSLATORS

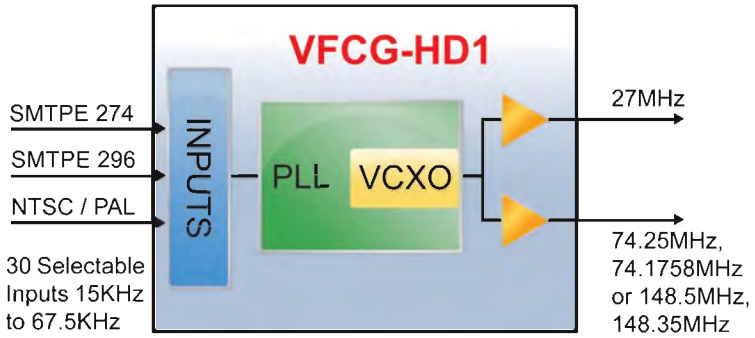
	PRODUCT SERIES	OUTPUT	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)	JITTER RMS 12KHz to 20MHz
PECL / LVPECL	VFFT100	PECL 25.4 X 22.0	5.0V 3.3V	8KHz – 250MHz 1 Input Frequency; 1 Output Frequency 50MHz – 1GHz	<0.3ps
	VFFT110	LVPECL 19.5 x 17.0	3.3V	10KHz – 800MHz 1 Input Frequency; 4 Selectable Outputs 300MHz – 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

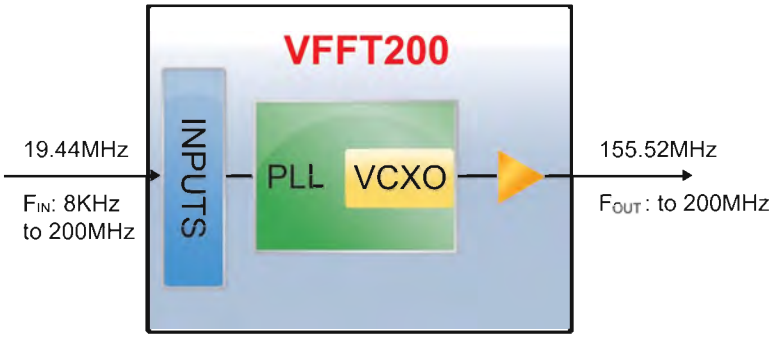
PRODUCT SERIES	OUTPUT	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)	JITTER RMS 12KHz to 20MHz
VFCG100	LVPECL 19.5 x 17.0	3.3V	4 Selectable Output Frequencies 300MHz – 1.5GHz	<1.0ps
VFCG-HD1	HCMOS 22 x 22	3.3V	15KHz – 67.5KHz 30 Selectable Inputs; 27MHz – 148.35MHz Outputs 27MHz and either 74.25MHz or 74.175MHz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

Featured product offering shown. Please visit www.ctsvalpey.com for our full line of Timing Modules.

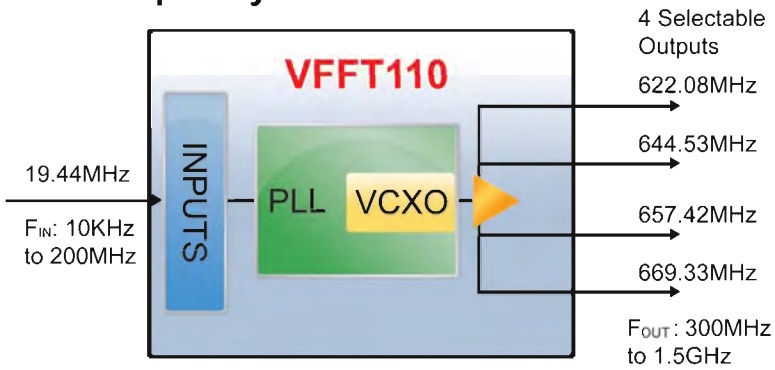
Synchronous Clock Generator for Standard & High Definition Video Broadcast



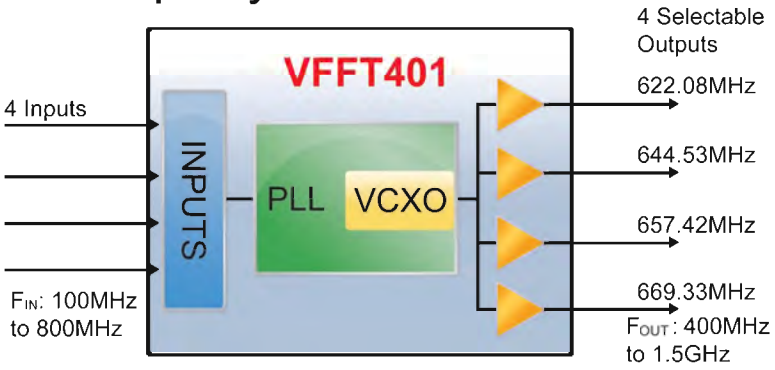
SONET Frequency Translator with 10ppm Automatic Holdover



Quad Selectable Output Frequency Translator to 1.5GHz



Quad Selectable Output Frequency Translator to 1.5GHz



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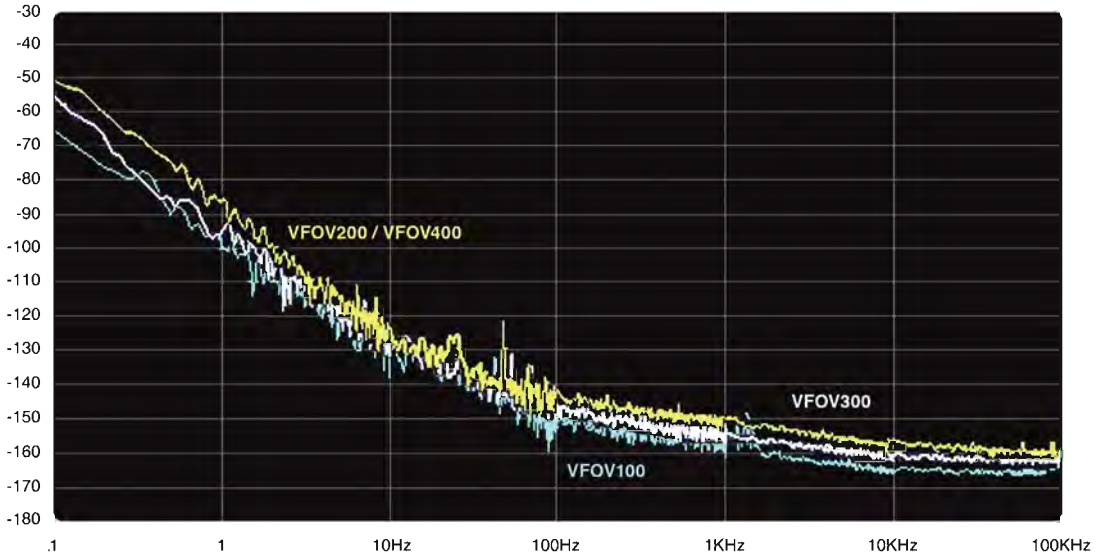
		PRODUCT SERIES	OUTPUT	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz) 10MHz 20 50 100 200MHz	POWER (25°C)	MAXIMUM STABILITY**	MAXIMUM OPERATING TEMPERATURE**	PHASE NOISE FLOOR (dBc/Hz)
Ultra Stable OCXOs	 25.4mm x 22.0mm	VFOV100	CMOS/SINE	3.3V 5.0V 12.0V	5MHz - 120MHz	1.0W	±10ppb	-40°C to +85°C	-168
		VFOV110		5.0V 12.0V	25MHz - 135MHz	1.2W	±200ppb	-40°C to +85°C	-174
	 36.1mm x 27.2mm Europack	VFOV200		3.3V 5.0V 12.0V	5MHz - 250MHz	1.0W	±2ppb	-40°C to +85°C	-160
		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	VFOV400	CMOS/SINE	3.3V 5.0V	5MHz -250MHz	0.12W	±5ppb	-40°C to +85°C	-165
	 20.5mm x 14.0mm	VFOV500	CMOS/TTL	3.3V 5.0V	30MHz - 120MHz	0.12W	±20ppb	-40°C to +85°C	-160
Small Low Power OCXO	 NEW DIL-14	VFOV650	HCMOS	3.3V 5.0V	10MHz - 100MHz	0.6W	±10ppb	-40°C to +85°C	-165
	 NEW 9.0mm x 14.0mm	DFO S1	HCMOS	3.3V	10MHz - 50MHz	0.3W	±20ppb	-40°C to +85°C	-150

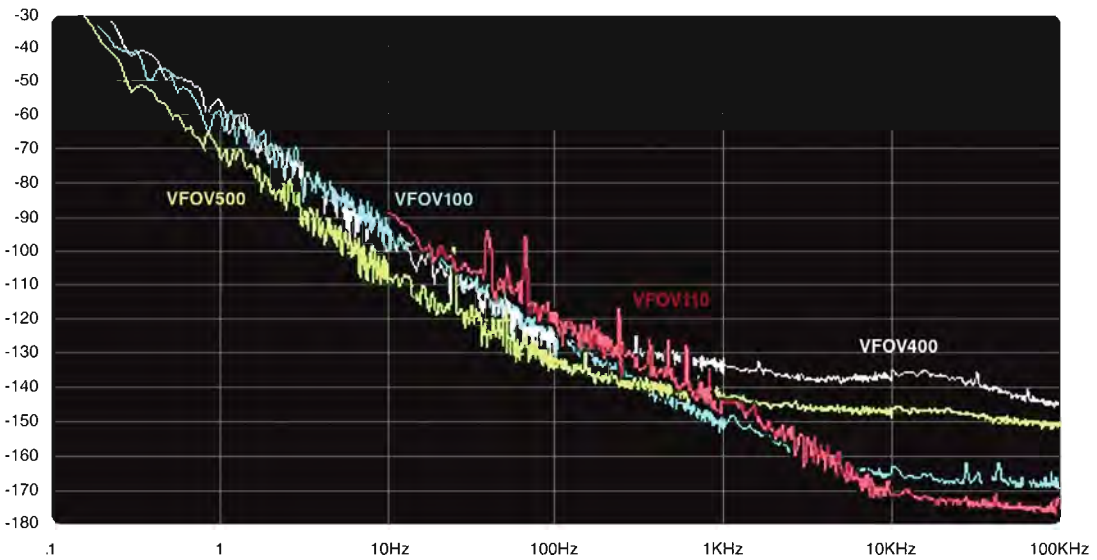
Featured product offering shown. Please visit www.ctsvalpey.com for our full line of OCXOs.

**Not all stabilities available with all temperature ranges.

OCXO Phase Noise Comparison at 10MHz



OCXO Phase Noise Comparison at 100MHz



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.

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.

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	PRODUCT SERIES	PACKAGE SIZE (mm)	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz) 5 20 100 200 400 600 800 1000	TEMP. STABILITY* (MAX)	OPERATING TEMPERATURE**
CLIPPED SINE	NEW VFTX250	2.5 x 2.0	2.8V 2.5V	10MHz – 52MHz	±0.5ppm	-40°C to +85°C
	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
CMOS	VFTX332 STRATUM III	5 x 7	3.3V 5.0V	10MHz – 26MHz	±0.28ppm	-40°C to +85°C
	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
	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	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

Featured product offering shown. Please visit www.ctsvalpey.com for our full line of TCXOs.

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

PRODUCT SELECTION GUIDE

RoHS 6/6

	PRODUCT SERIES	PACKAGE SIZE (mm)	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)	JITTER RMS (12KHz ~ 20MHz)	APR (MINIMUM)
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

Featured product offering shown. Please visit **www.ctsvalpey.com** for our full line of VCXOs.

PRODUCT SELECTION GUIDE

RoHS 6/6

	PRODUCT SERIES	PACKAGE SIZE (mm)	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)	TEMP. STABILITY (TYP)*	OPERATING TEMPERATURE**	JITTER RMS (12KHz-20MHz)
CMOS	VFXO203	3.2 x 2.5	1.8V 2.5V 3.3V	800KHz – 110MHz	±20ppm	-40°C to +85°C	<20ps
	VFX0202	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	<0.5ps
	VF540	9 x 14	3.3V	2MHz – 130MHz	± 20ppm	-55°C to +125°C	<1ps
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/ LVDS/SINE	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

Featured product offering shown. Please visit www.ctsvalpey.com for our full line of XOs.

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

Hi-Rel/COTS

PRODUCT SELECTION GUIDE

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	PRODUCT SERIES	PACKAGE SIZE (mm)	SUPPLY VOLTAGE	FREQUENCY RANGE (MHz)	STABILITY	OPERATING TEMPERATURE
Hi-Rel	NEW VFH3225	3.2 x 2.5	1.8V 2.5V 3.3V	25MHz -160MHz	±50ppm	-55°C to 125°C
Hi-Rel	VFH240C	5x7	2.5V 3.3V	38MHz - 640MHz	±75ppm	-55°C to 125°C
Hi-Rel	VFH2321	5x7	1.8V	850KHz - 165MHz	±50ppm	-55°C to 125°C
Hi-Rel	VFH2121	5x7	3.3V 5.0V	500KHz - 125MHz	±50ppm	-55°C to 125°C
Hi-Rel	T5321/T5421	5x7	3.3V	1MHz - 100MHz	±25ppm	-55°C to 125°C
Hi-Rel	T5621/T5721	5x7	5.0V	16MHz - 150MHz	±25ppm	-55°C to 125°C
Hi-Rel	M5500	DIP14	5.0V	1Hz - 125MHz	±50ppm	-55°C to 125°C
Hi-Rel	M6306 VCXO	DIP14	5.0V	1MHz - 35MHz	±50ppm	-55°C to 125°C
COTS	M1254/M3254	DIP14	5.0V	20KHz - 150MHz	±75ppm	-55°C to 200°C
COTS	T1250/T3250	5x7	5.0V	20KHz - 100MHz	±75ppm	-55°C to 200°C
COTS	T7250/T9250	5x7	3.3V	20KHz - 100MHz	±75ppm	-55°C to 200°C

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

PRODUCT SELECTION GUIDE

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PRODUCT FAMILES		FREQUENCY RANGE	SIZE (inches)
CONTACT	Standard	0.5MHz, 1MHz, 2.25MHz, 3.5MHz, 5MHz	0.5", 0.75", 1.0", 1.125", 1.25"
	Fingertip	1MHz, 2.25MHz, 3.5MHz, 5MHz, 7MHz, 10MHz	0.25", 0.375", 0.5", 0.75", 1.0"
	Protective Face	0.5MHz, 1MHz, 2.25MHz, 3.5MHz, 5MHz	0.5", 0.75", 1.0", 1.125"
DELAY LINE	Removable	2.25MHz, 3.5MHz, 5MHz, 7MHz, 10MHz, 15MHz, 20MHz, 25MHz	0.5", 0.75", 0.125", 0.375"
	Permanent	2.25MHz, 3.5MHz, 5MHz, 7MHz, 10MHz, 15MHz, 20MHz, 25MHz	0.5", 0.75", 0.125", 0.375"
ANGLE BEAM	Standard	0.5MHz, 1MHz, 2.25MHz, 3.5MHz, 5MHz	0.5 x 0.5", 0.5 x 1.0", 1.0 x 1.0"
	AWS	2.25MHz	0.625 x 0.625", 0.625 x 0.75", 0.75 x 0.75"
	Potted Angle	2.25MHz, 5MHz, 10MHz	0.187 x 0.187", 0.25 x 0.25", 0.375 x 0.375", 0.5 x 0.5"
	Threaded	1MHz, 2.25MHz, 3.5MHz, 5MHz, 7MHz, 10MHz	0.25", 0.375", 0.5"
IMMERSION	Standard	0.5MHz, 1MHz, 2.25MHz, 3.5MHz, 5MHz, 7MHz, 10MHz, 15MHz, 20MHz, 25MHz	0.25", 0.375", 0.5"
	Large	0.5MHz, 1MHz, 2.25MHz, 3.5MHz, 5MHz, 7MHz, 10MHz	0.75",1.0", 1.125", 1.25", 1.5"
	Pencil	1MHz, 2.25MHz, 3.5MHz, 5MHz, 7MHz, 10MHz, 15MHz, 20MHz, 25MHz	0.125", 0.25"
	Paint Brush	2.25MHz, 3.5MHz, 5MHz, 7MHz, 10MHz	1.50" x 0.25" 2.0" x 0.25" 3.0" x 0.25"
HIGH FREQUENCY	Standard	20MHz, 30MHz, 50MHz, 75MHz, 100MHz	0.25"
	Large	50MHz, 75MHz, 90MHz, 100MHz, 125MHz, 150MHz	0.125", 0.25"
	Contact	20MHz, 30MHz, 50MHz, 75MHz, 100MHz, 125MHz, 150MHz	0.125", 0.25"
DUAL ELEMENT	Potted Fingertip	1MHz, 2.25MHz, 3.5MHz, 5MHz, 10MHz	0.25", 0.375", 0.5", 0.75"
	Removable Fingertip	1MHz, 2.25MHz, 3.5MHz, 5MHz, 10MHz	0.25", 0.375", 0.5", 0.75"
	Wide Scan	1MHz, 2.25MHz, 3.5MHz, 5MHz, 10MHz	0.5" x 0.5", 0.5" x 1.0"
SHEAR WAVE	Standard	50KHz, 0.1MHz, 0.25MHz, 0.5MHz, 1MHz, 5MHz	0.5", 1.0"
	Fingertip	1MHz, 2.25MHz, 5MHz	0.125", 0.25", 0.5"
	Delay Line	5MHz, 10MHz, 15MHz, 20MHz, 25MHz	0.25"
PINDUCERS	Standard	10KHz - 10MHz	0.04", 0.053"