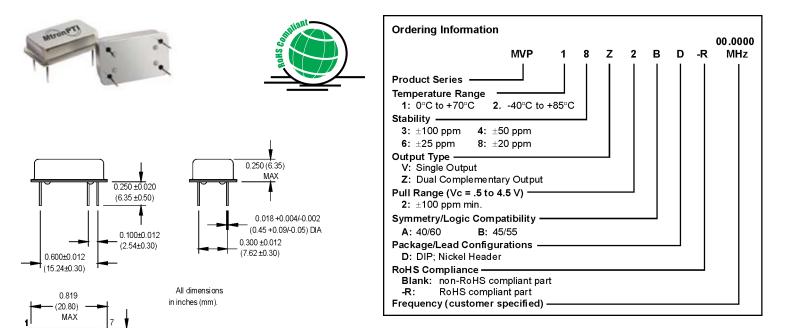
MVP Series 14 pin DIP, 5.0 Volt, PECL, VCXO





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Electrical Specifications	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition
	Frequency Range	F	19.44		160	MHz	See Note 1
	Frequency Stability	$\Delta F/F$	(See Ordering Information)				
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-55		+125	°C	
	Input Voltage	Vcc	4.75	5.0	5.25	V	
	Input Current	lee/lcc		40	60	mA	
	Symmetry (Duty Cycle)		(See Ordering Information)				
	Load				50	Ω	See Note 2
	Rise/Fall Time	Tr/Tf		1.5	2	ns	See Note 3
	Logic "1" Level	Voh	Vcc -0.98			V	
	Logic "0" Level	Vol			Vcc -1.63	V	
	Cycle to Cycle Jitter						1 Sigma
	@ 155.52 MHz			9.5	15	ps RMS	
	Phase Jitter @ 155.52 MHz	φJ		12	15	ps RMS	Integrated
	_						12 kHz - 20 MHz
	Peak to Peak Jitter (+/-)	Tj					@ BER 1E-12
	@ 155.52 MHz	-		84	105	ps	_
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
	@ 155.52 MHz	-61	-91	-113	-116	-114	dBc/Hz
	Modulation Bandwidth	fm			10	kHz	
	Input Impedance (Pin 1)	Zin	50			ΚΩ	
	Control Voltage	Vc	0.5		4.5	V	
	Center Frequency	Vc0		2.5		V	
	Pullability		(See Ordering Information)			Over control voltage	
	Linearity				10	%	
	Tri-State Function		Input Logic "1" or floating; output active				
			Input Logic "0"; output to High-Z				
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C					
	Vibration	Per MIL-STD-202, Method 201 & 204					
	Wave Solder Conditions	260°C for 10 s max.					
	Hermeticity	Per MIL-S	er MIL-STD-202, Method 112 (1 x 10 [°] atm.cc/s of helium				
Solderability Per EIAJ-STD-002							
	-						

1. Higher frequencies available. Consult factory.

See load circuit diagram #3.
Rise/Fall times are measured between Vcc -0.98 and Vcc -1.63 V.

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

OP TIONAL 4-PIN PACKAGE

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0.520 (13.20)

MAX

INSULATED STANDOFFS

APR Equivalents

APR	Pull Range	Stability	
\pm 50 ppm	$\pm 100 \text{ ppm}$	\pm 50 ppm	
\pm 75 ppm	$\pm 100 \text{ ppm}$	\pm 25 ppm	

Pin Connections

FUNCTION	4 Pin	5 Pin
Control Voltage	1	1
Circuit/Case Ground	7	7
Output (Q)	8	8
Output (Q)		9
+Vcc	14	14