MPV3 Series

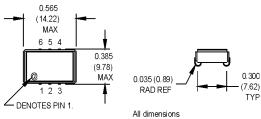
9x14 mm, 3.3 Volt, LVPECL/LVDS, VCXO

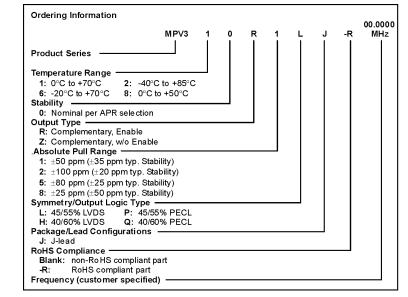


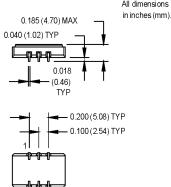




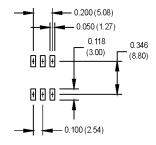
- Versatile VCXO to 800 MHz with good jitter (3 ps typical)
- Used in low jitter clock synthesizers and SONET applications







0.200 (5.00) 111
0.100 (2.54) TYP
11
CHOCECTED COLDED DAD LAVOUT



Pin Connections

PIN	FUNCTION				
1	Control Voltage				
2	Enable/Disable or N/C				
3	Ground/Case				
4	Output Q				
5	Output Q or N/C				
6	+Vcc				

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	0.75		800	MHz	
	Operating Temperature	TA	(See Ordering Information)				
Electrical Specifications	Storage Temperature	Ts	-55		+125	°C	
	Frequency Stability	∆F/F	(See Ordering Information)				See Note 1
	Aging						
	1st Year		-3/-5		+3/+5	ppm	< 52 MHz / ≥ 52 MHz
	Thereafter (per year)		-1/-2		+1/+2	ppm	< 52 MHz / ≥ 52 MHz
	Pullability/APR		(See Order	ing Inforn	nation)		See Note 2
	Control Voltage	Vc	0.3	1.65	3	٧	Pin 1 voltage
	Linearity			5	10	%	Positive Monotonic Slope
	Modulation Bandwidth	fm	10			kHz	-3 dB bandwidth
	Input Impedance	Zin	50k			Ohms	
	Input Voltage	Vcc	3.135	3.3	3.465	V	
	Input Current	lcc					
	0.75 MHz to 26 MHz				60/30	mA	PECL/LVDS
	26 MHz to 104 MHz				95/60	mA	PECL/LVDS
	104 MHz to 800 MHz				105/60	mA	PECL/LVDS
	Output Type						PECL/LVDS
	Load		50.01 / 1/ 0./50				See Note 3
			50 Ohms to Vcc -2 VDC				PECL waveform
	0		100 Ohm differential load				LVDS waveform
	Symmetry (Duty Cycle)						Vcc -1.3 VDC (PECL)
	(Per Symmetry Code) Output Skew		(See Ordering Information)				50% of Waveform (LVDS)
	· ·	Vo	250	240		ps mal/	LV/DC only
	Differential Voltage Logic "1" Level	Voh		340	450	mV V	LVDS only PECL
	Logic "0" Level	Vol	Vcc -1.02		Vcc -1.63	V	PECL
	Rise/Fall Time	Tr/Tf		0.35	0.55	ns	@ 20/80% LVPECL
	Rise/Fall Tillle	11/11		.50	1.0	ns	@ 20/80% LVDS
	Enable Function		80% Vec m				@ 20/80% LVD3
	Litable i diletion		80% Vcc min or N/C: output active 20% Vcc max: output disables to high-Z				
1	Start up Time		5 ps				
	Phase Jitter	φJ		3	5	ps RMS	Integrated 12 kHz - 20 MHz
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
	@ 19.44 MHz	-60	-90	-112	-140	-150	dBc/Hz
	@ 155.52 MHz	-60	-90	-112	-123	-120	dBc/Hz
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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.