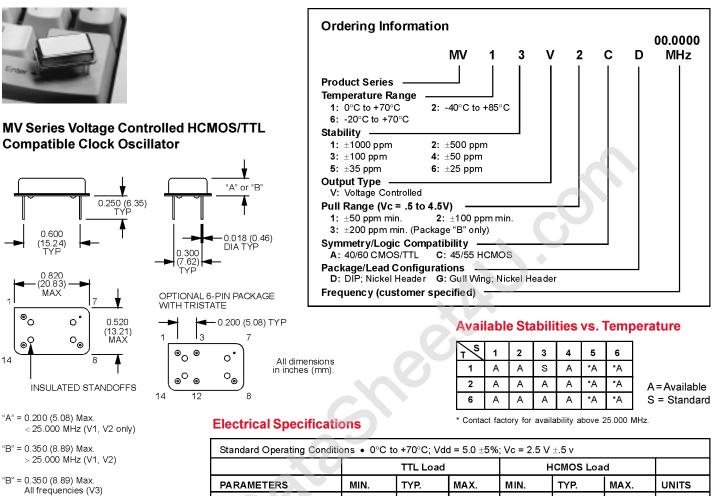
## MV Series HCMOS/TTL Compatible Voltage **Controlled Crystal Oscillators (VCXO)**





\* See page 135 for gull wing configuration.

## **Pin Connections**

14

PIN	FUNCTION	
1	Control Voltage	
7	Circuit/Case Ground	
8	Output	
14	+Vdd	

## **Pin Connections**

PIN	FUNCTION
1	Control Voltage
3	Tristate (6-Pin Pkg. Only)
7	Ground
8	Output
12	N/C (6-Pin Pkg. Only)
14	+Vdd

PARAMETERS	TTL Load			HCMOS Load			
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	UNITS
Frequency Range	1.500		155.520	1.500		155.520	MHz
Output Load <sup>1</sup>							
1.500 to 54.999 MHz			5			15	TTL/pF
55.000 to 155.520 MHz			10			50	TTL/pF
Symmetry <sup>2</sup>	40/60		60/40	40/60		60/40	%
Logic "0" Level			0.5			10% Vdd	V
Logic "1" Level	Vdd-0.5			90% Vdd			V
Rise/Fall Time <sup>3</sup>							
1.500 to 54.999 MHz			6			10	ns
55.000 to 155.520 MHz			1.5			5	nS
Supply Current <sup>4</sup>							
1.500 to 24.999 MHz		7 to 25	35		7 to 25	35	mA 🕥
25.000 to 69.999 MHz		35	60		35	60	mA
70.000 to 155.520 MHz		55	90		55	90	mA
Control Voltage, (Vc)	0.5		4.5	0.5		4.5	V
Center Voltage, (Vo)		2.5			2.5	0	V
Linearity			10			10	%

<sup>1</sup> TTL load - See load circuit diagram #1 on page 137. HCMOS load - See load circuit diagram #2 on page 137. <sup>2</sup> Symmetry is measured at 1.4 V with TTL load, and at 50% Vdd with HCMOS load.

<sup>3</sup> This parameter is frequency dependent and measured between 0.5 V and 2.4 V with TTL load, and at 50% Vdd with HCMOS load.

<sup>4</sup> This parameter is frequency and load dependent. See page 135, Figure "2" for typical phase noise graph. See page 135, Figure "3" for pull range graph.

See page 136 for suggested soldering conditions

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