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MHz

-R

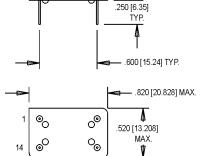
## THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS. PLEASE REFER TO THE MV3 or MV5 PRODUCT SERIES.

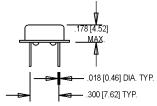




- Champion
- Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/Demodulation

V





All dimensions in inches [mm].

## **Pin Connections**

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

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition/Notes
	Frequency Range	F	2		55	MHz	
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	Ts	-40		+125	°C	
	Frequency Stability	∆F/F					
	Overall		Inclusive of Calibration, Temperature, Voltage, Load, and Aging				
	0°C to +70°C				±25	ppm	
	-40°C to +85°C				±50	ppm	
	Aging						
Electrical Specifications	1st Year		-3		+3	ppm	
	Thereafter (per year)		-1		+1	ppm	
	Pullability/APR		(See Ordering Information)				
eci	Control Voltage	Vc	0.5	2.5	4.5	V	
rical Sp	Linearity				10	%	Positive Monotonic Slope
	Modulation Bandwidth	fm	20			kHz	±3dB
ect	Input Impedance	Zin	50k			Ohms	@ 10 kHz
ᇳ	Input Voltage	Vdd	4.5	5.0	5.5	٧	
	Input Current	ldd			26	mA	
	Output Type						HCMOS/TTL
	Load		5 TTL or 15 pF HCMOS				See Note 1
	Symmetry (Duty Cycle)		(See Ordering Information)				See Note 2
	Logic "1" Level	Voh	4.5			V	
	Logic "0" Level	Vol			0.5	V	
	Output Current				±16	mA	
	Rise/Fall Time	Tr/Tf			4	ns	
	Start up Time				10	ms	
	Phase Jitter@ 26 MHz	φJ		4		ps RMS	Integrated 12 kHz - 20 MHz
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier
	@ 26 MHz	-65	-95	-120	-130	-140	dBc/Hz

Ordering Information

**Product Series** 

Model Selection -

Temperature Range Blank: 0°C to +70°C

**RoHS Compliance** 

Α: D. K1525C

 $\pm 100$  -  $\pm 150$  ppm Pull

 $\pm 80$  -  $\pm 120$  ppm Pull

-40°C to +85°C

Blank: non-RoHS compliant part -R: RoHS compliant part Frequency (customer specified)

Symmetry/Logic Compatibility Blank: TTL/CMOS 40%/60% CMOS 45%/55% TTL 45%/55%

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.

<sup>1.</sup> TTL load - see load circuit diagram #1. HCMOS load - see load circuit diagram #2.



## MtronPTI Lead Free Solder Profile

240°C All the remaining surface mount, both crystal and oscillator.

