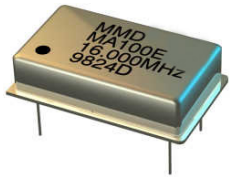
MVAP, MVAL, and MVAV Series

- **Industry Standard Package**
- **Wide Frequency Range**
- **RoHS Compliant Available**
- **Less than 1 pSec Jitter**

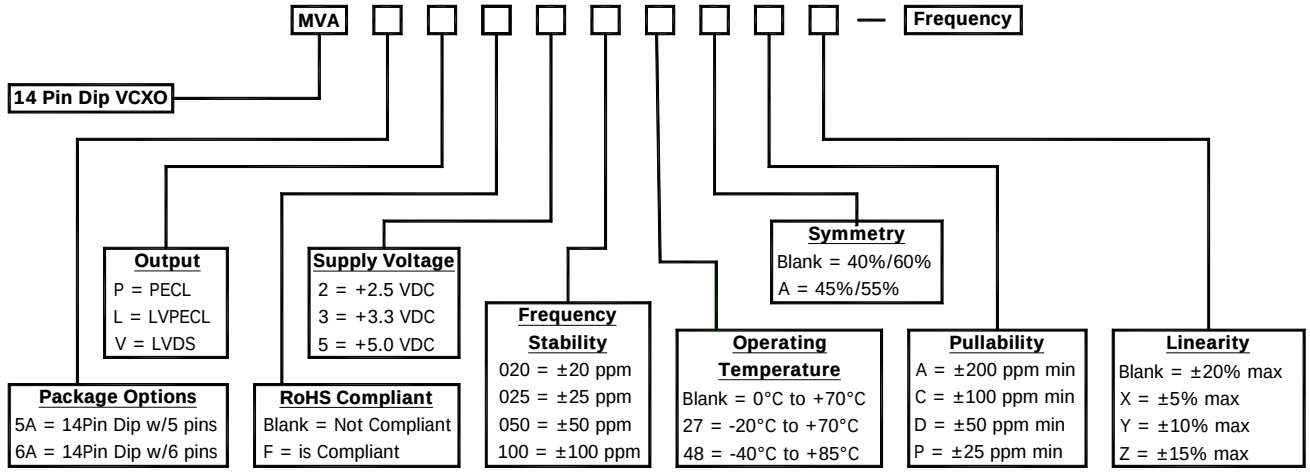


ELECTRICAL SPECIFICATIONS:

		LVDS	LVPECL	PECL
Frequency Range		70.000MHz to 800.000MHZ		
Frequency Stability*		(See Part Number Guide for Options)		
Operating Temp.Range		(See Part Number Guide for Options)		
Storage Temp. Range		-55°C to +125°C		
Aging		±5 ppm / yr max		
Logic "0"		1.43V typ	Vdd – 1.620 VDC max	Vdd – 1.620 VDC max
Logic "1"		1.10V typ	Vdd- 1.025 vdc min	Vdd- 1.025 vdc min
Supply Voltage (Vdd) Supply Current	+2.5VDC ± 5%	50 mA max	50 mA max	N/A
	+3.3VDC ± 5%	60 mA max	60 mA max	N/A
	+5.0VDC ± 5%	N/A	N/A	140 mA max
Symmetry (50% of waveform)		(See Part Number Guide for Options)		
Rise / Fall Time (20% to 80%)		2nSec max		
Load		50 Ohms into Vdd-2.00 VDC		
Start Time		10mSec max		
Phase Jitter (12kHz to 20MHz)		Less than 1 pSec		
Tri-State Operation		Vih = 70% of Vdd min to Enable Output Vil = 30% max or grounded to Disable Output (High Impedance)		
* Inclusive of Temp., Load, Voltage and Aging				

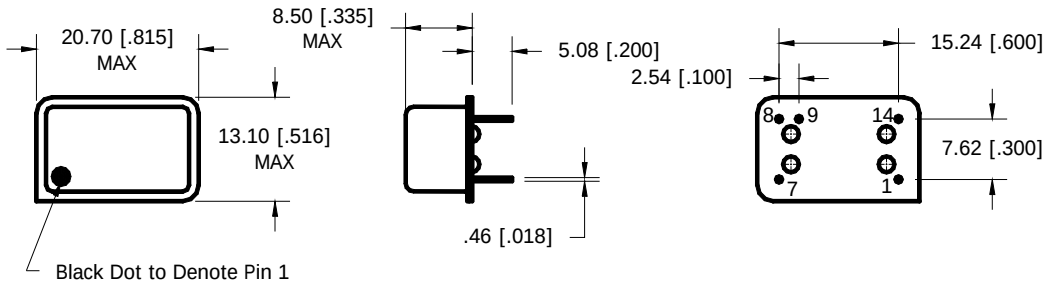
Control Voltage (Vc)	+2.5VDC	1.25VDC ±1.00VDC	1.25VDC ±1.00VDC	N/A
	+3.3VDC	1.65VDC ±1.50VDC	1.65VDC ±1.50VDC	N/A
	+5.0VDC	N/A	N/A	2.50VDC ±2.00VDC
Pullability		(See Part Number Guide for Options)		

PART NUMBER GUIDE:



MMD Components, 30400 Esperanza, Rancho Santa Margarita, CA, 92688
Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomp.com
Sales@mmdcomp.com

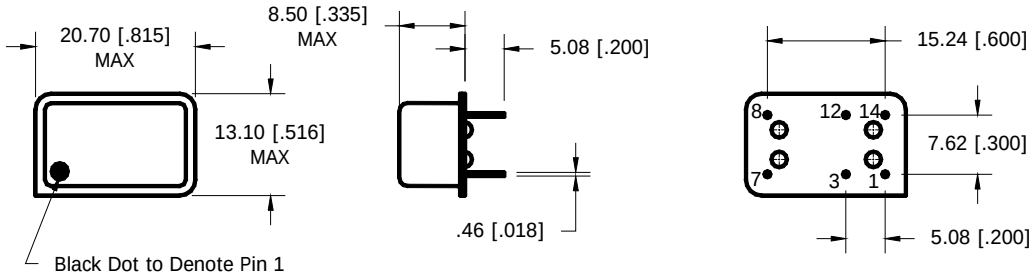
MECHANICAL DIMENSIONS: 5A OPTION



5A PACKAGE OPTION	
PIN 1	VOLTAGE CONTROL
PIN 7	CASE GROUND
PIN 8	OUTPUT
PIN 9	COMPL. OUTPUT
PIN 14	SUPPLY VOLTAGE

DIMENSIONS IN BRACKETS ARE IN INCHES
EXTERNAL BYPASS CAPACITOR IS RECOMMENDED

MECHANICAL DIMENSIONS: 6A OPTION



6A PACKAGE OPTION	
PIN 1	CONTROL VOLTAGE
PIN 3	ENABLE/DISABLE
PIN 7	OUTPUT
PIN 8	OUTPUT
PIN 12	COMPL. OUTPUT
PIN 14	SUPPLY VOLTAGE

ENABLE/DISABLE OPTION
LOGIC 1 = OSCILLATOR
LOGIC 0 OR GND = NO OSCILLATOR

DIMENSIONS IN BRACKETS ARE IN INCHES
EXTERNAL BYPASS CAPACITOR IS RECOMMENDED

ENVIRONMENT / MECHANICAL:

Shock	MIL-STD-883, Method 2002, Condition B
Solderability	MIL-STD-883, Method 2003
Solvent Resistance	MIL-STD-883, Method 215
Vibration	MIL-STD-883, Method 2007, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Fine Leak Test	MIL-STD-883, Method 1014, Condition A-2

TAPE and DIMENSIONS:

Line 1 =MXXXXX
M = MMD COMPONENTS
XXXXX = Frequency in MHZ

Line 2 = SYYMML
S = Internal Code
YYMM = 4 Digit Date Code (Year / Month)
L = Denotes RoHS Compliant

Line 3 = XXXXX
Internal use only
May vary with lots

Black dot to denote Pin 1

PHASE NOISE:

PHASE NOISE PLOT
COMING SOON

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