

MV-XP298Y-1196V is a Crystal Oscillator (XO) . This XO is a low power, PECL output oscillator and comes in a FR4 base with metal cover 11.4x9.6mm package.

The device is qualified to meet the JEDEC standard for Pb-Free assembly and compliant to the RoHS directive.

Electrical Performance

Parameter	Min	Typ	Max	Units
General				
Output Frequency		211		MHz
Operating Temperature		0/+70		°C
Stability Over Temperature			±30	ppm
Package Size		11.4 x 9.6 x 5.0		mm
Supply				
Supply Voltage (Vdd)	3.14	+3.3	3.47	V
Supply Current			70	mA
Output				
Output Signal		PECL		
Output Logic Level				
Output Level - Logic High	Vdd-1.025			V
Output Level - Logic Low			Vdd-1.620	V
Output Load		50 Ω into Vdd-2V		
Output Rise and Fall Time			1.5	ns
Duty Cycle	40		60	%
Phase Noise: (211 MHz)				
10 Hz offset		-60		dBc/Hz
100 Hz offset		-90		dBc/Hz
1kHz offset		-112		dBc/Hz
10kHz offset		-125		dBc/Hz
1MHz offset		-123		dBc/Hz
Jitter				
RMS Jitter: (12kHz - 20MHz) - 211 MHz		4.0		ps

Notes:

- 1 Stability includes initial accuracy, operating temperature, supply voltage and aging

Maximum Ratings

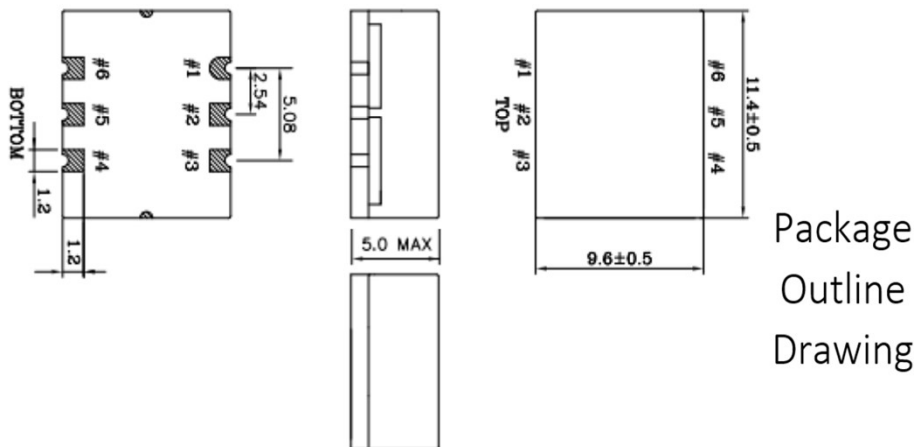
Storage Temp	-55°C to 125°C
Supply Voltage	-0.5V to +7.0V

Maximum Ratings Notes:

- 1 Stresses in excess of the absolute maximum ratings can permanently damage the device.
- 2 Exposure to absolute maximum ratings for extended periods may adversely affect device reliability.

Package Information

Pin #	Function
Pin 1	NC = Make No Connection
Pin 2	NC = Make No Connection
Pin 3	GND = Ground
Pin 4	OUT = Output
Pin 5	C-OUT = Complimentary Output
Pin 6	Vdd = Supply Voltage



Handling and Construction

Package Construction	FR4 base with metal cover
Contact Pads	Gold over Nickel
Pad Metal Thickness	Gold (0.3µm min - 1.0µm max) over Nickel
Moisture Sensitivity Level	MSL 1
ESD, Human Body Model	1500V
ESD, Charge Device Model	1500V

Ordering Information

MV-XP298Y-1196V -

XO, PECL

11.4 x 9.6 x 5.0mm, 6 Pins

B Z D

① ② ③

- 211M0000

Frequency

① Voltage

B: 3.3 V

② Temp Range

Z: 0/+70 °C

③ Temp Stability

D: ±30 ppm