

SMD LVPECL output

7.0 x 5.0 x 1.8 mm

Phase Jitter < 0.5 ps [38.0 ~ 640.0 MHz]



RoHS Compliance

Features

- Tri-state function available on pad No. 2.

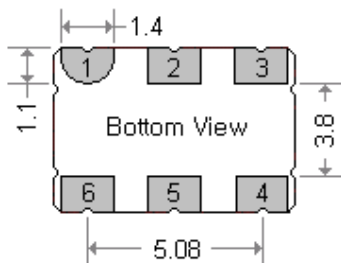
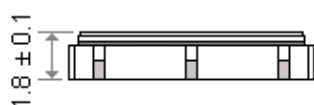
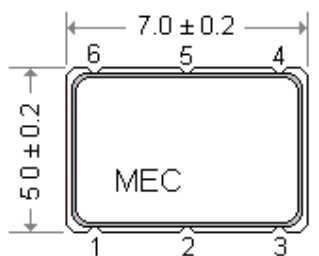
Applications

- " GPF " series: Best performance among the three series. Phase jitter is less than 0.5 ps.

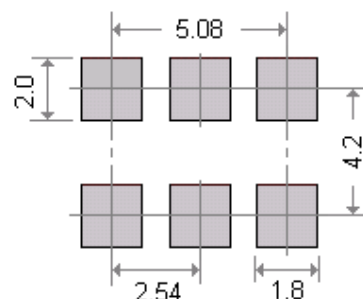
General Specifications

Parameters		Electrical Spec.							
Input Voltage (V _{DD})		3.3 V ± 5 %							
Frequency Range / Load		38.0 MHz ~ 640.0 MHz							
Output Wave Form		LVPECL output							
Output Logic High " 1 "	min.	V _{DD} - 1.025 (RL = 50 Ω to (V _{DD} - 2.0V)							
	typical	V _{DD} - 0.950 (RL = 50 Ω to (V _{DD} - 2.0V)							
	max.	V _{DD} - 0.88 (RL = 50 Ω to (V _{DD} - 2.0V)							
Output Logic Low " 0 "	min.	V _{DD} - 1.810 (RL = 50 Ω to (V _{DD} - 2.0V)							
	typical	V _{DD} - 1.700 (RL = 50 Ω to (V _{DD} - 2.0V)							
	max.	V _{DD} - 1.620 (RL = 50 Ω to (V _{DD} - 2.0V)							
Initial Freq. Accuracy (at 25 °C)		To tune to the nominal frequency with Vc = 1.65V ± 0.15V							
Frequency Deviation Range		Standard : ± 80 ppm (min.)							
Control Voltage Center / Control Voltage Range		1.65 VDC / 0.3 V to 3.0 V							
Integrated Phase Noise (12 KHz to 20 MHz)		0.4 ps (typical) ; 0.5 ps (max.)							
Rise Time (Tr) / Fall Time (Tf)		0.4n sec.(typical) ; 0.6 n sec. (max.)							
Duty Cycle		50% ± 10% [50% ± 5% is also available]							
Load		50 Ω into Vcc - 2V or Thevenin equivalent							
Current Consumption (15 pF load)	38.0 ~ 100.0 MHz	100.1 ~ 320.0 MHz		320.1 ~ 800.0 MHz					
	65 mA (max.)	80 mA (max.)		90 mA (max.)					
Start - Up Time (Ts)		10 m sec.(typical)							
Storage Temperature		- 50°C to 100°C							
Aging		± 3 ppm per year (max.)							
Frequency Stability ⁽¹⁾ Codes	Frequency Stability over Operating Temperature Range	± 25 ppm	± 50 ppm	± 100 ppm	If non-standard , please enter the desired stability after the " C " or " I "				
	Commercial (-10°C to +70°C)	A	B	C	For example : " C20 " ±20 ppm over -10°C to +70°C ; " I20 " ± 20 ppm over -40°C to +85°C				
	Industrial (-40°C to +85°C)	D	E	F					
Phase Noise (typical) [156.250 MHz]		Offset	10 Hz	100 Hz	1K Hz	10 KHz	100KHz	1 MHz	10 MHz
		dBc / Hz	-62	-90	-120	-132	-128	-140	-150

Outline Dimensions (Unit : mm)



Pad Connections :
 Pad 1 : Control Voltage
 Pad 2 : Tri - state
 Pad 3 : Ground
 Pad 4 : Output
 Pad 5 : Complimentary Output
 Pad 6 : Supply voltage



Suggested Land Pattern

Mercury www.mercury-crystal.com