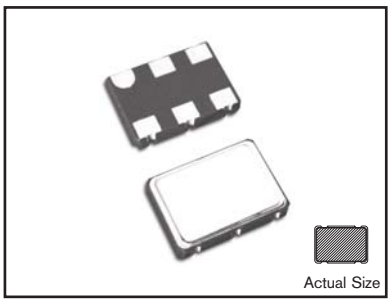
SERIES
FMOCLVDSC1S

1.8 Vdc LVDS Clock Oscillators

CERAMIC SMD 5x7



- Miniature, Low Profile
- 1.8 Vdc Supply Voltage
- LVDS
- Low Current Consumption

SPECIFICATIONS

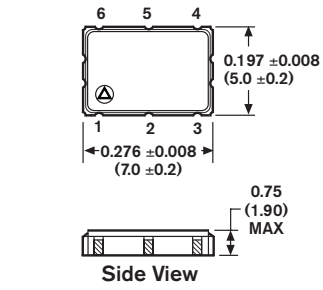
08 - Issue 2 - 091508

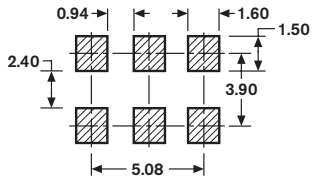
RoHS compliant

Parameter	Specification
Frequency Range	10.000 to 250.000 MHz
Overall Frequency Tolerance	±20 ppm to ±100 ppm (Inclusive of Operating Temp., Supply Voltage, & Load)
Operating Temperature Range	0 to +70°C Std., -40 to +85°C Avail.
Storage Temperature	-55 to +125°C
Supply Voltage (Vdd)	+1.8 Vdc ± 5%
Supply Current (Icc)	20 mA Typical
Phase Jitter (TpJ)	0.044 x 10^{-3} Typical
Phase Jitter (Tp-p)	3 pS RMS max. I Condition: 12 kHz to 20 MHz
Accumulated Jitter (Tacc)	3 pS RMS max. I Condition: 12 kHz to 20 MHz
Symmetry (Duty Cycle)	45/55%
Rise and Fall Time	400 ps (20 to 80% of Vod)
Start Time	10 ms max. < 5 ms typical
Output	LVDS
Output Load	50 ohms max. (Vcc - 2.0V)
Differential Output Voltage	0.247V to 0.454V
(Vod) (Out 1 - Out 2)	(0.33V Typical)
Offset Voltage	1.25 Vos
Pin 1 Options (See Spec. Option **T** below)	No Connect (Std.) Tri-State (option **T**) VIH: 2.2 V or Open Enables Output VIL: 0.8 V Disables Output Output Disable/Enable Time: 100 nS max.
Aging @ 25°C	±5ppm max first year

All specifications subject to change without notice.

CERAMIC SMD





STANDARD MARKING

XXX.XXXM
XXXXXXX
• FMI YYWW

XXX.XXXM FREQUENCY in MHz
XXXXXXX Part Number
Pin 1 Symbol, FMI, Date Code

PIN FUNCTION TABLE

Pin	Function
1	Tri-state Enable/Disable
2	NC or Tri-State
3	Ground (Case)
4	Output
5	Diff. Output
6	Supply Voltage (Vdd)

Standard Specifications for product indicated in color

Dimensions: Inches (mm)

PART DESCRIPTION SYSTEM

FMOCLVDSC1S 00 A T - XX.XXXXXXM - CM

Product Family
LVDS 1.8 Vdc Clock Osc. Ceramic SMD

Overall Frequency Tol.	
20	± 20 ppm
25	± 25 ppm
50	± 50 ppm
00	± 100 ppm
nn	± Custom Value

Temp. Range	
A	0 to 70 °C
B	-20 to 70 °C
C	-40 to 85 °C
D	-10 to 50 °C
E	-10 to 60 °C
F	-30 to 60 °C
J	0 to 50 °C
X	Custom

Specification Options
T - Tri-State
BLANK - None Required (Std.)

Frequency (MHz)

Options
TR - Tape and Reel
PD - Parameter Data
CM - Custom Mark
BLANK - None Req'd.

FREQUENCY MANAGEMENT | INTERNATIONAL
15302 Bolsa Chica Street
Huntington Beach, CA 92649
ph (714) 373-8100 | fx (714) 373-8700

1-800-800-XTAL
[9825]
www.fmi-inc.com