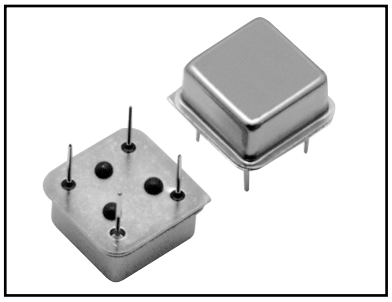
FMOPC8
FMOEC8 SERIES

+5.0, +3.3 or -5.2, Vdc
PECL & ECL Clock Oscillators
8 PIN DIP



- ECL and PECL Voltage Options
- High Frequency Range
- Low Noise
- SMD Gull Wing Available

RoHS compliant

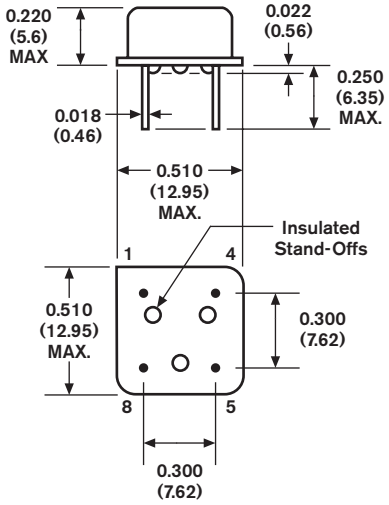
SPECIFICATIONS

08 - Issue 2 - 041508

Parameter	PECL Specification	ECL
Frequency Range	30.0 – 160.0 MHz	
Overall Frequency Tolerance	±20 ppm to ±100 ppm (Inclusive of Operating Temp., Supply Voltage and Load)	
Operating Temperature Range	0 to +70° C Std.	(See Temp. Range Options)
Storage Temperature	-55° to +125° C	
Supply Voltage (Vdd)	+5.0 Vdc (±0.5 Vdc) +3.3 Vdc (±0.3 Vdc)	-5.2 Vdc (±0.5Vdc) (See Voltage Options)
Supply Current	70 mA max. (+5.0 Vdd) 60 mA max. (+3.3 Vdd)	70 mA max. (-5.2 Vdd)
Symmetry (Duty Cycle)	40/60% Std., 45/55% Avail. (See Spec. Options S)	
Logic Type	PECL / ECL squarewave, 100K Compatible	
Output Load*	330 ohms to Vee. (See Test Circuits pg. 49)	50 ohms to -2 Vcd., ref. to Vdd.
Output "0" Level (VOL)	(Vdd - 1.60 Vdc) max.	-1.62 Vdc max.
Output "1" Level (VOH)	(Vdd - 1.02 Vdc) min.	-1.02 Vdc min.
Rise and Fall Time	2nS max.	
Pin 1 Options (See Spec Options N, C, T below and add option letter in part number)	Pin 1: No Connection (N) Pin 1: Complementary Output (C) Pin 1: Tri-State (T) Tri-State Enable Low Level, (VIL –1.60) Vdc Max. Tri-State Disable High Level, (VIH –1.02) Vdc Min. When oscillator is disabled, the ouput is in a low state (VOL).	
Aging @ 25°C	±5ppm max first year	

All specifications subject to change without notice.
*Other ECL and PECL Output Load and Pin Function configurations are available upon request.

HALF SIZE 8 PIN DIP



PIN FUNCTION TABLE

Pin	Function
1	See Pin 1 Options
7	Vee (Case Ground)
8	Output
14	Vdd (Supply Voltage)

STANDARD MARKING

XXX.XXXM
XXXXXXX
• FMI YYWW

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

Standard Specifications for product indicated in color

Dimensions: Inches (mm)

PART DESCRIPTION SYSTEM

FMOPC8 A 00 A S/N/C/T - XXX.XXXXXXM - CM

Product Family
PC8 - PECL Osc.
EC8 - ECL Osc.
Full-Size 8 Pin Dip

Input Voltage
A - PECL +5.0 Vdc (Vdd)
B - PECL +3.3 Vdc (Vdd)
E - ECL -5.2 (Vdd)

Overall Freq. 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
S - Tight Symmetry (45/55%) Duty Cycle
N - Pin 1 No Connect (Std.)
C - Pin 1 Complimentary Output
T - Pin 1 Tri-State

Frequency (MHz)

Options
GW - Gull Wing
JL - J-Lead
PD - Parameter Data
CM - Custom Mark
BLANK - None Req'd.

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