

FMTCW SERIES

5.0 Vdc TCXO

14 PIN DIP



- 5.0 Vdc Supply Voltage
- HCMOS/TTL Compatible
- Hermetic Package
- Tight Stability Over Temp.

SPECIFICATIONS

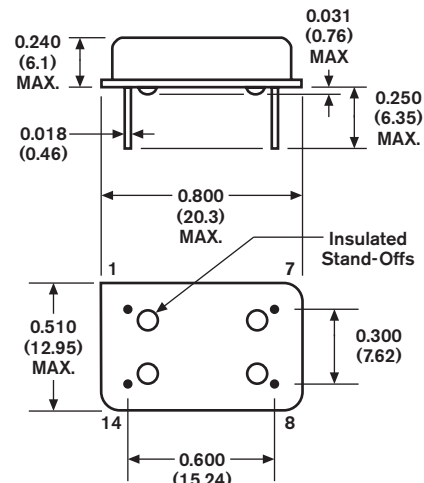
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Parameter	HCMOS/TTL Specification										
Frequency Range	1.8432 - 50 MHz										
Frequency Adjustment Range	None (Std.); ± 3 ppm min. with MT Option										
Frequency Stability vs. Temp	See Table										
Frequency Stability vs. Input V.	± 0.5 ppm max.										
Frequency Stability vs. Load	± 0.3 ppm max.										
Frequency Stability vs. Aging	± 1 ppm per year max.										
Storage Temperature	-40 to +85°C										
Supply Voltage (Vdd)	+5.0 Vdc (± 0.25 Vdc)										
Supply Current (Icc)	20 mA max.										
Symmetry (Duty Cycle)	40/60% Std.										
Output "0" Level (VOL)	0.4 Vdc max. (TTL) 0.5 Vdc max. (HCMOS)										
Output "1" Level (VOH)	2.4 Vdc min. (TTL) 4.5 Vdc min. (HCMOS)										
Rise and Fall Time	10 ns max. (5ns typical)										
Output Load	10 TTL / 15 pF HCMOS										
Jitter (typical)	< 10 pico seconds, one sigma										
Phase Noise (typical)	<table border="1"> <tr> <td>10 Hz</td><td>-75dBc/Hz</td></tr> <tr> <td>100 Hz</td><td>-110dBc/Hz</td></tr> <tr> <td>1kHz</td><td>-125dBc/Hz</td></tr> <tr> <td>10kHz</td><td>-130dBc/Hz</td></tr> <tr> <td>100kHz</td><td>-140dBc/Hz</td></tr> </table>	10 Hz	-75dBc/Hz	100 Hz	-110dBc/Hz	1kHz	-125dBc/Hz	10kHz	-130dBc/Hz	100kHz	-140dBc/Hz
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100 Hz	-110dBc/Hz										
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10kHz	-130dBc/Hz										
100kHz	-140dBc/Hz										
Aging @ 25°C	± 1 ppm max first year										

All specifications subject to change without notice.

FULL SIZE 14 PIN DIP



PIN FUNCTION TABLE

Pin	Function
1	No Connect
7	Case Ground
8	Output
14	Supply Voltage (Vdd)

STANDARD MARKING

XXX.XXXM
XXXXXXX
• FMI YYWW

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

FREQUENCY STABILITY vs. TEMPERATURE AVAILABILITY TABLE

		Frequency Stability ($\pm$ ppm)											
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	10.0	15.0	
Temp. Range	FM Code	010	015	020	025	030	035	040	045	050	100	150	
0 to 50°C	J	*	*	*	*	*	*	*	*	*	*	*	
-10 to 60°C	E	*	*	*	*	*	*	*	*	*	*	*	
0 to 70°C	A		*	*	*	*	*	*	*	*	*	*	
-20 to 70°C	B		*	*	*	*	*	*	*	*	*	*	
-30 to 60°C	F		*	*	*	*	*	*	*	*	*	*	
-40 to 85°C	C			*	*	*	*	*	*	*	*	*	

* Denotes Availability

Standard Specifications for product indicated in color

Dimensions: Inches (mm)

PART DESCRIPTION SYSTEM

FMTCW 050 J SW / MT - XX.XXXXXXM - CM

Product Family
5.0 Vdc TCXO Full-Size 14 Pin DIP

Frequency Stability
Choose FM Code from Frequency Stability Table (Code 050=5.0 ppm)

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

Frequency (MHz)

Specification Options
SW - Clipped Sinewave
MT - Mechanical Trim
BLANK - HCMOS/TTL

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