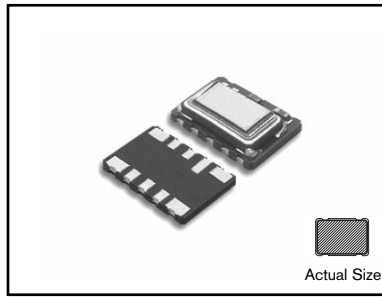


Prelim

FMTC3S SERIES

3.3 Vdc TCXO

CERAMIC SMD 5x7



- Miniature, Low Profile
- 3.3 Vdc Supply Voltage
- HCMOS / TTL Compatible
- Clipped Sinewave

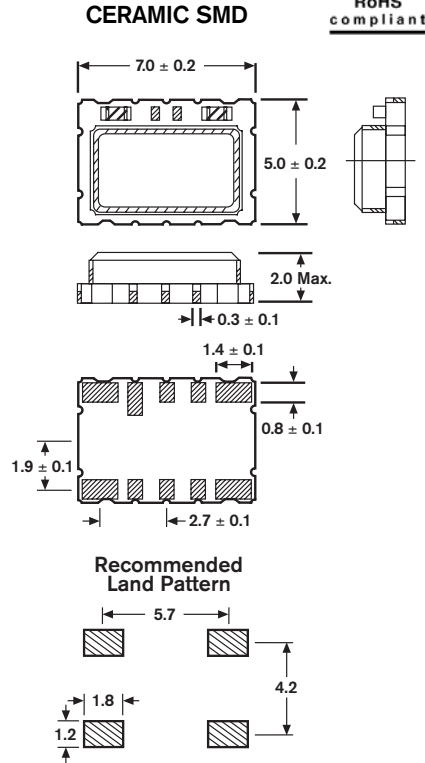


SPECIFICATIONS

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Parameter	HCMOS/TTL Specification
Frequency Range	2.0 - 29.0 MHz
Frequency Adjustment Range	None (Std.); ±3 ppm min. with MT Option
Frequency Stability vs. Temp	See Table; Standard, -30°C to +75°C
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)	+3.3 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)	10 Hz -75dBc/Hz 100 Hz -110dBc/Hz 1kHz -125dBc/Hz 10kHz -130dBc/Hz 100kHz -140dBc/Hz
Aging @ 25°C	±1 ppm max first year

All specifications subject to change without notice.



FREQUENCY STABILITY vs. TEMPERATURE AVAILABILITY TABLE

Temp. Range	FM Code	Frequency Stability (±ppm)													
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	10.0	15.0				
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				*	*	*	*	*	*	*	*	*	*	*
-30 to 75°C	S					*	*	*	*	*	*	*	*	*	*
-40 to 85°C	C						*	*	*	*	*	*	*	*	*

* Denotes Availability

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	No Connect
2	Case Ground
3	Output
4	Supply Voltage (Vdd)

Standard Specifications for product indicated in color

Dimensions: $\frac{\text{Inches}}{\text{(mm)}}$

PART DESCRIPTION SYSTEM

FMTC3S 050 J SW / MT - XX.XXXXXXM - CM

Product Family
3.3 Vdc TCXO
Ceramic SMD

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
S -30 to 75 °C
X Custom

Frequency (MHz)

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

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