

5.0V HCMOS TRI-STATE ENABLE/DISABLE OSCILLATORS

F5C-2E / H5C-2E

FEATURES

- 5.0V Operationg
- HCMOS/TTL Output
- Tri-State Enable/Disable
- 14-Pin DIP / 8-Pin DIP



• MODEL NUMBER SELECTION			
Model Number	Frequency Stability ¹	Operating Temperature (°C)	Frequency Range (MHz)
F5C-2E / H5C-2E	±100PPM	0 ~ +70	1.000 ~ 160.000
F5C-2ER / H5C-2ER	±100PPM	-40 ~ +85	1.000 ~ 160.000
F6C-2E / H6C-2E	±50PPM	0 ~ +70	1.000 ~ 160.000
F6C-2ER / H6C-2ER	±50PPM	-40 ~ +85	1.000 ~ 160.000
F7C-2E / H7C-2E	±25PPM	0 ~ +70	1.000 ~ 160.000
F7C-2ER / H7C-2ER	±25PPM	-40 ~ +85	1.000 ~ 125.000
F8C-2E / H8C-2E	±20PPM	0 ~ +70	1.000 ~ 125.000

• ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.000 ~ 160.000 MHz
Storage Temperature Range (T _{STG})	-55°C ~ +125°C
Supply Voltage (V _{DD})	5.0V ± 10%
Input Current (I _{DD})	
1.000 ~ 40.000 MHz	40mA
40.000+ ~ 125.000 MHz	60mA
125.000+ ~ 160.000 MHz	100mA
Output Symmetry (50% V _{DD})	
1.000 ~ 50.000 MHz	45% ~ 55%
50.000+ ~ 160.000 MHz	40% ~ 60%
Rise Time (10% ~ 90% V _{DD}) (T _R)	
1.000 ~ 125.000 MHz	10 nS
125.000+ ~ 160.000 MHz	6 nS
Fall Time (90% ~ 10% V _{DD}) (T _F)	
1.000 ~ 125.000 MHz	10 nS
125.000+ ~ 160.000 MHz	6 nS
Output Voltage (V _{OL})	10% V _{DD}
(V _{OH})	90% V _{DD} Min
Output Current (I _{OL})	16mA Min
(I _{OH})	-16mA Min
Output Load	
TTL	10TTL
HCMOS	50pF
Start-up Time (T _S)	10mS
Output Enable/Disable Time ²	100nS

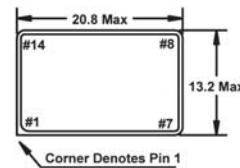
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

² An internal pullup resistor from pin 1 to V_{DD} allows active output if pin 1 is left open.

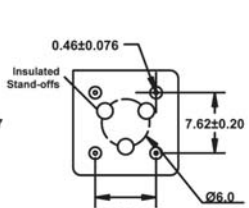
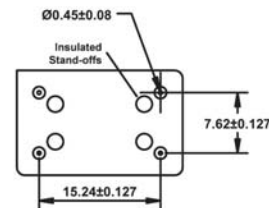
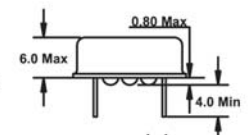
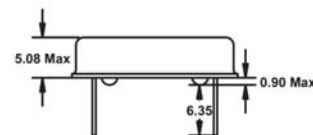
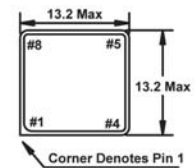
See page 30 for mechanical specifications, test circuits, and output waveform.

All specifications subject to change without notice. Rev. 11/25/03

F5C-2E



H5C-2E



Pin Connections
#1 E/D #7 GND (Case) #8 Output #14 Vdd

Pin Connections
#1 E/D #4 GND (Case) #5 Output #8 Vdd

All dimensions are in millimeters.

• ENABLE / DISABLE FUNCTION	
INH (Pin 1)	OUTPUT (Pin 8 or Pin 5)
OPEN ²	ACTIVE
'1' Level V _{IH} ≥ 2.2 V	ACTIVE
'0' Level V _{IL} ≤ 0.8 V	High Z