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14-PIN DIP TRI-STATE ENABLE/DISABLE OSCILLATORS

NFB1L / NFB1H / NFT1L



FREQUENCY STABILITY

MODEL	FREQUENCY STABILITY
NF1B1L•NF1B1H•NF1T1L	±100 PPM/–10 ~ +70°C
NF2B1L•NF2B1H•NF2T1L	± 50 PPM/–10 ~ +70°C
NF3B1L•NF3B1H•NF3T1L	± 25 PPM/–10 ~ +70°C
NF1B1HR	±100 PPM/–40 ~ +85°C

OPERATING CONDITIONS

Operating Temperature	–10 ~ +70°C, –40 ~ +85°C
Storage Temperature	–55 ~ +125°C
Supply Voltage (V_{DD})	+5.0V±0.5V

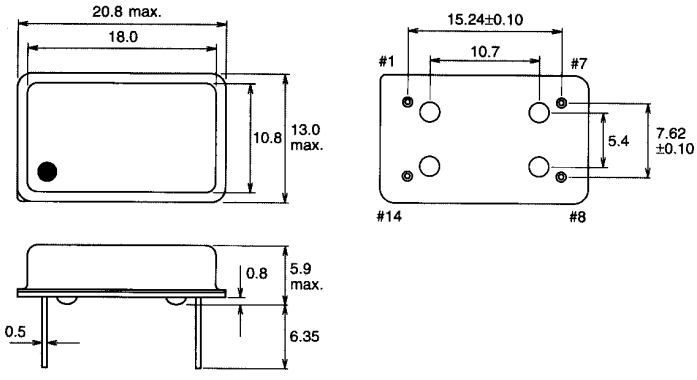
ELECTRICAL CHARACTERISTICS (Ta=25°C, V_{DD}=5.0V, CL=15pF for NFB1L, CL=50pF for NFB1H, RL=400Ω for NFT1L)

PARAMETERS	CONDITIONS	FREQUENCY RANGE (MHz)	SPECIFICATIONS NFB1L	NFB1H	NFT1L
Input Current (I_{DD})		1.800 ~ 25.000	16mA Max.	25mA Max.	16mA Max.
		25.000+ ~ 50.000	30mA Max.	40mA Max.	30mA Max.
		50.000+ ~ 80.000	59mA Max.	77mA Max.	60mA Max.
		80.000+ ~ 100.000	69mA Max.	82mA Max.	75mA Max.
Frequency Stability	All conditions (Note)	1.800 ~ 50.000	±25 PPM ~ ±100 PPM		
		50.000+ ~ 90.000	±50 PPM ~ ±100 PPM		
		90.000+ ~ 100.000	±100PPM		
Symmetry	@2.5V	1.800 ~ 80.000	45/55%		—
		80.000+ ~ 100.000	40/60%		—
	@1.4V	1.800 ~ 80.000	—		45/55%
		80.000+ ~ 100.000	—		40/60%
Output Voltage (V_{OL})	"0" Level	1.800 ~ 100.000	0.5V Max.		0.4V Max.
Output Voltage (V_{OH})	"1" Level		4.5V Min.		2.4V Min.
Rise Time (T_R)	0.5V to 4.5V	1.800 ~ 100.000	5nS Max.		—
	0.4V to 2.4V		—		5nS Max.
Fall Time (T_F)	4.5V to 0.5V	1.800 ~ 100.000	5nS Max.		—
	2.4V to 0.4V		—		5nS Max.
Output Current (I_{OL})	"0" Level	1.800 ~ 100.000	16mA Min.		16mA Min.
Output Current (I_{OH})	"1" Level		16mA Min.		4mA Min.
Driving Ability	TTL	1.800 ~ 100.000	10 N-TTL Max.		
	HCMOS	1.800 ~ 80.000	15pF Max.	50pF Max.	—
		80.000+ ~ 100.000	15pF Max.	30pF Max.	—
Start-up Time	0.0V to 5.0V	1.800 ~ 100.000	10mS Max.		

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

DISCONTINUED BY MARCH 2000

DIMENSIONS (mm)



ENABLE/DISABLE FUNCTION	
$\overline{INH}$ (Pin #1)	OUTPUT (Pin #8)
Open	Active
"1" (V_{IH}≥2.2V)	Active
"0" (V_{IL}≤0.8V)	High Z

Pin Connections	
# 1	E/D
# 7	GND
# 8	OUT
#14	V_{DD}