

FREQUENCY TRANSLATOR / FX 7T SERIES



Features

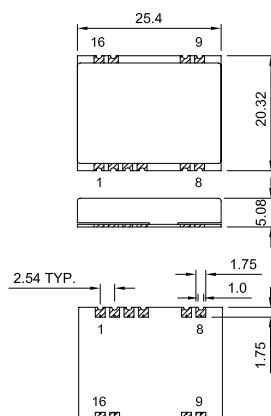
- > Input : 8 KHz ~ 100 MHz CMOS.
- > Output : 10 MHz ~ 800 MHz LVPECL.

Electrical Specifications

Item / Type	7T
Output Waveform	LVPECL compatible
Output Load	50 Ω to 1.33 V
Supply Voltage	3.3 V
Output Frequency	77.76 MHz
Reference Frequency	8 KHz ± 2 ppm CMOS
VCXO Control Voltage Output	1.4 < U _c < 2V Decoupling with 470 KΩ serial resistor and 100 nF cap to GND
Frequency Stability : (VCXO part)	± 25 ppm
Operating Temperature Range*	0 ~ +85 °C
Storage Temperature Range	-40 ~ +85 °C
Lock Detector Output	CMOS compatible
Synthesizer in lock	U _{lock} = H (0.9 V _{cc} Min.)
Synthesizer out of lock	U _{lock} = L (0.1 V _{cc} Max.)
Rise (Tr) / Fall (Tf) Time (20 % ~ 80 %)	0.6 ns Max.
Supply Current	70 mA Max.
Symmetry	45 ~ 55 %
Start-up Time (VCXO)	10 ms Max. at 3.3V supply
Non-Harmonics Spurious	-140 dBc Max.
Phase Jitter Phase (12 KHz ~ 20 MHz)	1 ps Max.
Phase Noise	-90 dBc / Hz at 100 Hz
	-100 dBc / Hz at 1 KHz
	-110 dBc / Hz at 10 KHz
	-140 dBc / Hz > 50KHz
Input Breakdown Voltage	-0.5 ~ 5 V

* Max. operating temperature range -20 ~ +85 °C

Dimensions



PAD FUNCTION:

- 1: IN
- 2: GND
- 3: LD
- 4: U_c
- 7: GND
- 8: ENABLE CONTROL
- 9: -OUT
- 10: OUT
- 15: GND
- 16: VDD

Units:mm

Remark : Specification subject to change without prior notice. Please confirm with our sales. <http://www.txccorp.com>