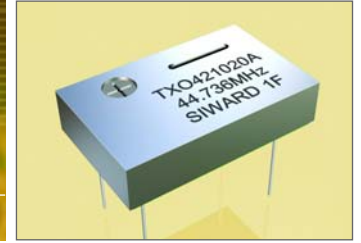


TXO42, VTX42

TEMPERATURE-COMPENSATED CRYSTAL OSCILLATOR

DIP



TYPICAL APPLICATIONS

Computer control, Cordless telephone, Automobile telephone, Telecommunication

DIMENSION

18.5 x 12.0 x 5.0[mm]

TYPICAL SPECIFICATIONS

Model		TXO42	VTX42
Nominal Frequency range		9.6 ~ 45MHz	1.2 ~ 45MHz
Standard Frequency		9.6, 10.0, 12.8, 14.4, 16.384, 19.44, 20.00, 40.00, 44.736MHz	
Frequency Stability	Tolerance	$\pm 1.0 \times 10^{-6}$ Max. $F \leq 30$ MHz $\pm 2.0 \times 10^{-6}$ Max. $F > 30$ MHz	$\pm 1.0 \times 10^{-6}$ Max. $F \leq 30$ MHz $\pm 2.0 \times 10^{-6}$ Max. $F > 30$ MHz
	Temperature	$\pm 1.0 \times 10^{-6}$ $F \leq 34.9$ $\pm 2.5 \times 10^{-6}$ $F \leq 34.9$ $\pm 2.0 \times 10^{-6}$ $F > 34.9$ $\pm 3.5 \times 10^{-6}$ $F > 34.9$	$\pm 1.0 \times 10^{-6}$ $F \leq 34.9$ $\pm 2.5 \times 10^{-6}$ $F \leq 34.9$ $\pm 2.0 \times 10^{-6}$ $F > 34.9$ $\pm 3.5 \times 10^{-6}$ $F > 34.9$
Supply voltage		$\pm 0.3 \times 10^{-6}$ Max.	$\pm 0.5 \times 10^{-6}$ Max.
Aging		$\pm 1.0 \times 10^{-6}$ Max.	$\pm 1.0 \times 10^{-6}$ Max.
Temperature range	Operating	0°C ~ +50°C -30°C ~ +75°C	0°C ~ +50°C -30°C ~ +75°C
	Storage	-40°C ~ +85°C	-40°C ~ +85°C
Power Supply Voltage (VDC)		+3 ~ +5V(±5%)	+3 ~ +5V(±5%)
Current consumption		2.0(2.0)mA Max.: 9.6 ~ 20MHz	15mA Max.: $F \leq 20$ MHz
		3.0(2.0)mA Max.: 20.1 ~ 30MHz	25mA Max.: $F \leq 34.9$ MHz
		4.0(3.0)mA Max.: $F > 30$ MHz	30mA Max.: $F > 35$ MHz
Output	Load	10kΩ/10pF	15pF 2TTL
	Voltage	1.0Vp-p Min.	Vol:0.1Vcc Max. Vol:0.4 Max.
		0.7Vp-p Min.	Voh:0.9Vcc Min. Voh:2.4 Min.
	Symmetry		40 ~ 60% at 1/2Vcc 40 ~ 60% at 1.4V
	Waveform	Sine	Square/CMOS Square/TTL
Phase Noise (at 1.0kHz) [dBc/Hz]		-140 Max. : $F < 12$ MHz ^{††}	-135 Max. : $F < 12$ MHz
		-140 Max. : $12 \leq F < 20$ MHz	-130 Max. : $12 \leq F < 20$ MHz
		-135 Max. : $20 \leq F < 40$ MHz	-125 Max. : $20 \leq F < 40$ MHz
Frequency Adjustment Trimmer		$\pm 3 \times 10^{-6}$	$\pm 3 \times 10^{-6}$
VTX:		$\pm 10 \times 10^{-6}$ Min./+2.5±2VDC	
Freq. Variable range/control voltage		$\pm 10 \times 10^{-6}$ Min./+1.65±1.65VDC	

* Please consult with us for other specification.

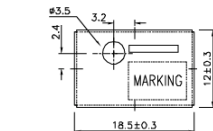
[†] Vcc: +3.3V

^{††} Performance vary based on different specification.

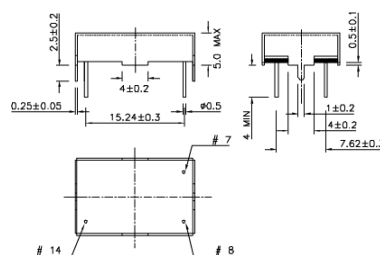
OUTLINE DIMENSIONS

Unit:mm

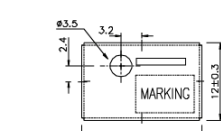
TXO-42



PIN NO	CONNECTION
# 14	+VCC
# 8	OUTPUT
# 7	GND



VTX-42



PIN NO	CONNECTION
# 14	+VCC
# 8	OUTPUT
# 7	GND
# 1	+VC

