

TA400 - 10

- ±0.5ppm, excellent phase noise, low ageing, wide frequency range.
- A small hermetically sealed package, manufactured to standard and custom specifications over the frequency range of 1MHz to 1GHz.
- Precision crystals provide outstanding long term ageing from ±4.6ppm over 10 years.



Stand	ard c	options:
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frequency range:		1MHz ~ 1GHz		
accuracy codes:	(A)	(B)	(C)	
temperature tolerance	±0.5ppm	±1.0ppm	±2.0ppm	
temperature range	(0 +50)°C	(-20 +70)°C	(-40 +70)°C	
output codes:	(S)		(L)	
output	sine wave, 0dBm into 50	Ω CI	MOS 15pF, 45% ~ 55%	
harmonics -30dBc max.	<2ns max. rise and fall			
supply voltage codes:	(V1)*	(V2)*	(V3)*	
supply voltage	+3.3Vd.c.	+5.0Vd.c.	+12.0Vd.c.	
voltage reference option*	+3.0Vd.c.	+3.0Vd.c.	+3.0Vd.c.	
	*add suffix (R) for V _{ref} output on pin #2			

Generic specification:

stability:

against supply voltage change against load change ageing short term

ageing long term voltage trim V_t trim input impedance

power supplies:

supply voltage V_{cc} supply current insulation resistance

phase noise:

single sideband, 1Hz bandwidth

+3.3Vd.c. +5.0Vd.c. +12.0Vd.c. 50mA max. frequency dependent 500MegΩ min., 100Vd.c.

 ± 0.02 ppm max. for $V_{cc} \pm 5\%$

±0.02ppm max. for load ±10%

±0.005ppm max. per day after 30 days continuous operation

±1.5ppm max. first year

±10ppm min. typical, linearity ±5%

100K Ω min.

-80dBc/Hz, f_o+10Hz -100dBc/Hz, f_o+100Hz -125dBc/Hz, f_o+1kHz

temperature:

operating range storage range

(0 +50)°C (-40 +125)°C

(-10 +60)°C (-40 +125)°C (-40 +70)°C (-40 +125)°C

TCXO series TA400 - 10 February 29th 2012

Environmental conditions:

mechanical shock: MIL standard 202F, method 213, condition J thermal shock: MIL standard 202F, method 107, condition A vibration: MIL standard 202F, method 204, condition B

solderability: 5 seconds max. at +230°C, 3 seconds max. at +350°C

Marking: part number and frequency on high temperature

metalised polyester label

Ordering code:

standard specification: TA400-10 A S V2* - 16.384M

TA400-10 = series generic code

A temp. tol. and temp. range code: $A = \pm 0.5 ppm(0 + 50)^{\circ}C$ S output code: $S = sine wave output, 0dBm into 50\Omega$

V2* supply voltage code: V2 = +5Vd.c. supply

*add suffix (R) for V_{ref} output on pin #5 output frequency: **16.384M = 16.384MHz**

Custom specification: part number issued with custom specification and drawing



