

Product Data (SMO-N)

TCO-787RH3, 786RH, 787RH

Features

- CMOS output
- Small size : 7W × 5D × 2Hmm
- Enable/Disable control (Oscillation standby function)

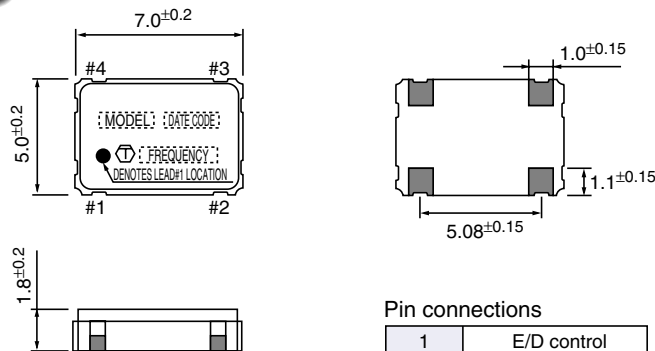


Specifications

Type		TCO-787RH3		TCO-786RH	TCO-787RH
Frequency	fo	1.5 to 36 MHz		1.5 to 70 MHz	1.5 to 70 MHz
Frequency stability*	Δf/fo	±100 ppm		±50 ppm	±100 ppm
Operating temperature	Topr	0 to +70°C			
Supply voltage	Vcc	+5 VDC±10 %	+3.3 VDC±10 %	+5 VDC±10 %	
Supply current	Icc	10 mA Max. (1.5 ≤ fo ≤ 10 MHz) 15 mA Max. (10 < fo ≤ 26 MHz) 35 mA Max. (26 < fo ≤ 36 MHz)	7 mA Max. (1.5 ≤ fo ≤ 10 MHz) 13 mA Max. (10 < fo ≤ 26 MHz) 30 mA Max. (26 < fo ≤ 36 MHz)	10 mA Max. (1.5 ≤ fo ≤ 10 MHz) 15 mA Max. (10 < fo ≤ 26 MHz) 35 mA Max. (26 < fo ≤ 50 MHz) 50 mA Max. (50 < fo ≤ 70 MHz)	35 mA Max. (36 ≤ fo ≤ 50 MHz) 50 mA Max. (50 < fo ≤ 70 MHz)
Input voltage	V _{IH} V _{IL}	70 % Vcc Min. 20 % Vcc Max.		+3.5 V Min. +1.5 V Max.	
Output voltage	V _{OH} V _{OL}	Vcc-0.4 V Min. +0.4 V Max.			
Symmetry	SYM	45 to 55% (50%Vcc level)	40 to 60% (50%Vcc level)	45 to 55% (50%Vcc level)	
Rise/Fall time	tr/tf	12 nSec. Max. (1.5 ≤ fo ≤ 26 MHz) 10 nSec. Max. (26 < fo ≤ 36 MHz) at 10 to 90 % Vcc	12 nSec. Max. (1.5 ≤ fo ≤ 10 MHz) 10 nSec. Max. (10 < fo ≤ 26 MHz) 8 nSec. Max. (26 < fo ≤ 36 MHz) at 20 to 80 % Vcc	12 nSec. Max. (1.5 ≤ fo ≤ 26 MHz) 10 nSec. Max. (26 < fo ≤ 50 MHz) 6 nSec. Max. (50 < fo ≤ 70 MHz) at 10 to 90 % Vcc	10 nSec. Max. (36 ≤ fo ≤ 50 MHz) 6 nSec. Max. (50 < fo ≤ 70 MHz) at 10 to 90 % Vcc
Load capacitance	CL	50 pF Max. (1.5 ≤ fo ≤ 26 MHz) 30 pF Max. (26 < fo ≤ 36 MHz)	15 pF Max. (1.5 ≤ fo ≤ 36 MHz)	50 pF Max. (1.5 ≤ fo ≤ 26 MHz) 30 pF Max. (26 < fo ≤ 50 MHz) 15 pF Max. (50 < fo ≤ 70 MHz)	30 pF Max. (36 ≤ fo ≤ 50 MHz) 15 pF Max. (50 < fo ≤ 70 MHz)
Start-up time	t _{st}	4 mSec. Max. (1.5 ≤ fo ≤ 26 MHz) 10 mSec. Max. (26 < fo ≤ 36 MHz)		4 mSec. Max. (1.5 ≤ fo ≤ 26 MHz) 10 mSec. Max. (26 < fo ≤ 70 MHz)	10 mSec. Max. (36 ≤ fo ≤ 70 MHz)
Measuring circuit		TEST-4			
Sealing		Glass sealed			

* Inclusive of calibration tolerance at +25°C, operating temperature, operating voltage range.

Outline Drawing [mm]



Pin connections

1	E/D control
2	GND
3	Output
4	Vcc (DC)