

Full Size Clock Oscillators TTL/HCMOS Compatible



The XO-543 series is with 3.3 V power supply. The metal package with pin #7 case ground acts as shielding to minimize EMI radiation.

FEATURES

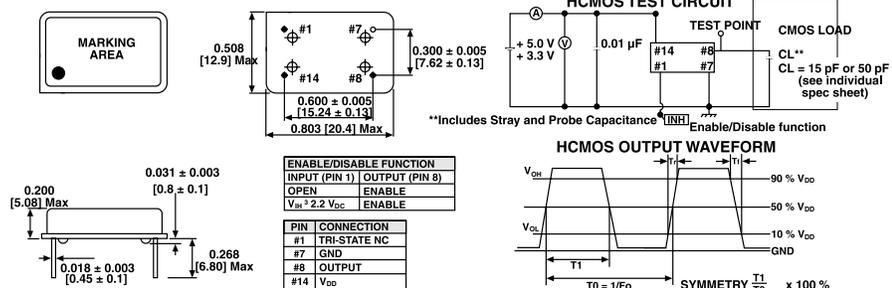
- 14 pin full size
- Industry standard
- Wide frequency range
- Low cost
- Tri-State enable/disable
- Resistance weld package
- 3.3 V
- Lead (Pb)-free terminations and RoHS compliant



STANDARD ELECTRICAL SPECIFICATIONS			
PARAMETER	SYMBOL	CONDITION	XO-543
Frequency Range	F_O		1 MHz ~ 100.00 MHz
Frequency Stability*		All Condition*	± 25 ppm, ± 50 ppm, ± 100 ppm
Operating Temperature Range	T_{OPR}		0 °C ~ 70 °C (- 40 °C ~ + 85 °C option)
Storage Temperature Range	T_{STG}		- 55 °C ~ + 125 °C
Power Supply Voltage	V_{DD}		3.3 V ± 10 %
Aging (first year)		25 °C ± 3 °C	± 5 ppm
Supply Current	I_{DD}	1 MHz to 23.999 MHz	15 mA Max
		24.000 MHz to 49.999 MHz	20 mA Max
		50.000 MHz to 69.999 MHz	30 mA Max
		70.000 MHz to 100.000 MHz	45 mA Max
Output Symmetry	Sym	$1/2 V_{DD}$	40/60 % (45/55 % option)
Rise Time	T_r	10 % V_{DD} ~ 90 % V_{DD}	8 ns Max
Fall Time	T_f	90 % V_{DD} ~ 10 % V_{DD}	8 ns Max
Output Voltage	V_{OH}		90 % V_{DD} Min
	V_{OL}		10 % V_{DD} Max
Output Load	TTL Load		1 ~ 5 TTL
	HCMOS load		~ 50 M : 30 pF ~ 125 M : 15 pF
Start-up Time		T_s	10 ms Max
Pin 1, Tri-State Function			Pin 1 = H or open... Output active at pin 8 Pin 1 = L... High Impedance at pin 8

* Include: 25 °C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration.

DIMENSIONS in millimeters



ORDERING INFORMATION					
XO-543	B	R	E	40 M	e2
MODEL	FREQUENCY STABILITY	OTR	ENABLE/DISABLE	FREQUENCY/MHz	JEDEC LEAD (Pb)-FREE STANDARD
	AA = 0.0025 % (25 ppm) A = 0.005 % (50 ppm) B = 0.01 % (100 ppm)	Blank = 0 °C to + 70 °C R = - 40 °C to + 85 °C	Blank = Pin 1 open E = Disable or Tristate		

GLOBAL PART NUMBER												
X	O	3	4	C	T	E	D	N	A	4	0	M
MODEL				FREQUENCY STABILITY		ENABLE/DISABLE CODE		OPTIONS		FREQUENCY		

GLOBAL PART NUMBERING												
X	O	5	2	C	T	E	L	N	A	4	0	M
MODEL NUMBER				FREQUENCY STABILITY	OPERATING TEMPERATURE (OTR)	ENABLE/DISABLE	PACKAGE CODE	OPTIONS	FREQUENCY			
XO53 = XO-53 XO54 = XO-54 XO34 = XO-543 XO52 = XO-52 XO53 = XO-523 XO56 = XO-56 XOVC = XOVC-23 XO5M = XOSM-52 XO63 = XOSM-533 XO62 = XOSM-532 XO61 = XOSM-531 XO57 = XOSM-57 XO37 = XOSM-573 XO27 = XOSM-572 XO17 = XOSM-571 XO55 = XOSM-55 XO35 = XOSM-553				C = 0.01 % (100 ppm) D = 0.005 % (50 ppm) E = 0.0025 % (25 ppm)	T = 0 °C to + 70 °C R = - 40 °C to + 85 °C	f = pin 1 open E = Disable to Tristate	TAPE AND REEL H = RF7 BULK A = B04 (XO63, XO62, XO61) c = d06 (XO57, XO37, XO27, XO17) D = D07 (XO53, XO54, XO34, XO56, XOVC, XO55, XO35) L = D08 (XO52, XO32, XO5M)	NA = No Additional Options 60 = 45/55 Symmetry Contact factory for all other options	4M = 4 MHz 40M = 40 MHz 100M = 100 MHz 12M288 = 12.288 MHz M is used as decimal place holder in frequency			
Example: XO52CTELNA40M												



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