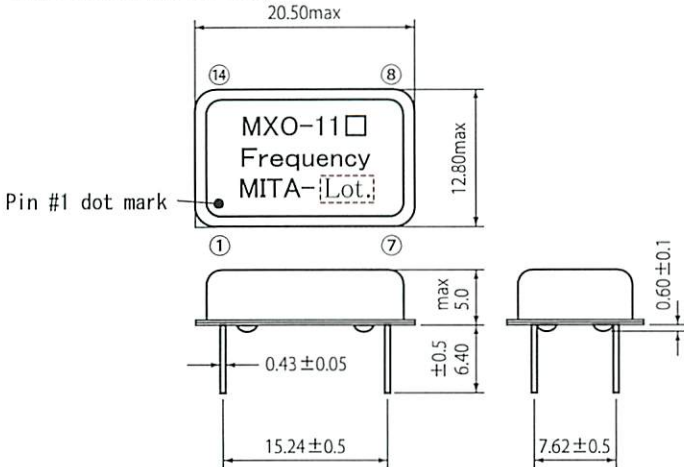
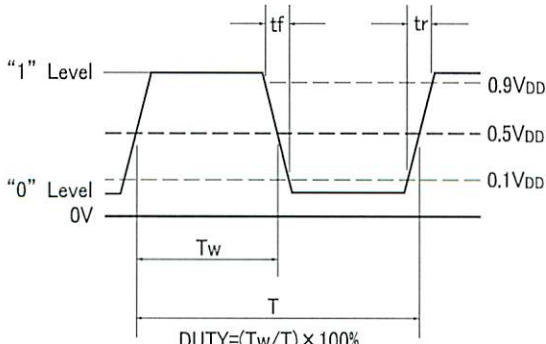


Crystal oscillators specification sheet

Customer name		Parts No. / Application	
1. Model 2. Dimension (mm) 2.1 Dimension (unit: mm)		MXO-11□ (□: stability rank code)	
		Pin connection ①: N C ⑦: GND ⑧: OUT PUT ⑭: DC + 5 V	
2.2. Marking		Marking shall be clearly indicated followings with method which is hard to erase easily. Model / Stability rank code Frequency Lot (3digits) : 1) Produced year (Last digits) 2) A(January) ~ M(December) *Except I 3) D:Pb E:FTPb F:NoPb H:RoHS2	
3. Frequency		250KHz ~ 25.000MHz	
4. Frequency stability		C: ±100ppm max B: ±50ppm max A: ±25ppm max	
5. Operation temperature range		-10°C ~ +70°C	
6. Storage temperature range		-20°C ~ +80°C	
7. Input voltage		+5V ± 5% (DC)	
8. Input current		10mA max	
9. Output waveform		C-MOS (TTL compatible)	
10. Output Load		15pF (5TTL)	
11. Output level (C-MOS)		“V _{OH} ” 0.9V _{DD} min (TTL 2.4V _{DD} min) “V _{OL} ” 0.1V _{DD} max (TTL 0.4V _{DD} max)	
12. Rise/Fall times (tr/tf)		5nS max	
13. Duty cycle (Symmetry)		45% ~ 55% (+2.5V level) 40% ~ 60% (+1.4V level)	
14. Frequency Aging		±2ppm per year	
15. Output waveform diagram (C-MOS)			
Contact 技術 '19. 2. 7 前田時		Spec No. Issued: 2019-02-07 ()	
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