MXO5026 Series OCXO
36.0 x 27.0 x 20.0 mm

- **Available in AT or SC cut, featuring low phase noise in a small package**
- **Ideal for base stations, instrumentation and test equipment where size is a factor**

Ordering Information

MXO5026 1 A A C D 00.0000 MHz

Product Series

Temperature Range
- **1:** 0°C to +70°C
- **8:** 0°C to +50°C
- **B:** -30°C to +70°C
- **C:** -40°C to +70°C

Stability
- **A:** ±1.0 x 10^{-7}
- **C:** ±7.0 x 10^{-8}
- **D:** ±6.0 x 10^{-8}
- **E:** ±5.0 x 10^{-8}
- **F:** ±4.0 x 10^{-8}
- **G:** ±3.0 x 10^{-8}
- **J:** ±2.0 x 10^{-8}
- **K:** ±1.0 x 10^{-8}

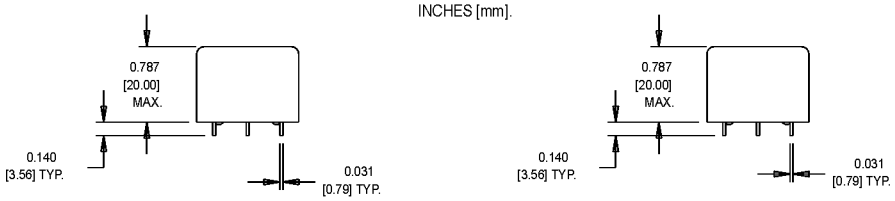
Crystal Cut
- **A:** AT Cut
- **S:** SC Cut

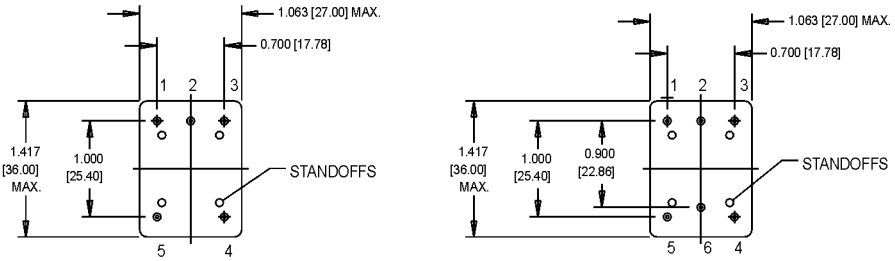
Output Type
- **C:** CMOS
- **H:** HCMOS
- **S:** Sinewave
- **T:** TTL

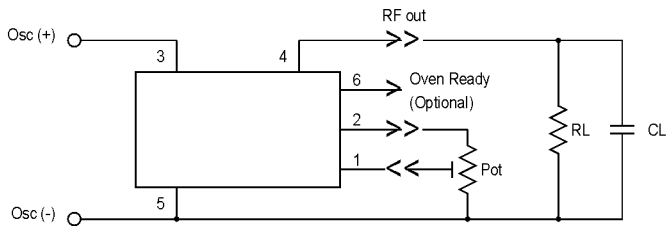
Package Type
- **D:** DIP

Frequency (Customer Specified)

DIMENSIONS ARE SHOWN IN INCHES [mm].







Pin Connections

PIN	FUNCTION
1	Frequency Adjust
2	Vref
3	Supply (+)
4	RF Output
5	Case Ground & Supply Return
6	Oven Ready (Optional)

M-tron Industries, Inc., PO Box 630, Yankton, SD 57078-0630, USA Phone: 605-665-9321 or 1-800-762-8800 Fax: 605-665-1709 Website: www.mtron.com
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36.0 x 27.0 x 20.0 mm

Electrical Specifications	PARAMETER	SC-cut	AT-cut
	Frequency Range	10 MHz	10 MHz
	Temperature Range	-10°C to +70°C	-10°C to +70°C
	Temperature Stability	±2.0 x 10^{-8}	±6.0 x 10^{-8}
	Supply Voltage	+12 Vdc ±5%	+12 Vdc ±5%
	Aging Over 1 Year	±5.0 x 10^{-8}	±2.0 x 10^{-7}
	Aging After First Year	±2.0 x 10^{-8}	
	Warm-up Current	.400 mA max	
	Current @ 25°C steady state	125 mA max	
	Warm-up Time @ 25°C	to within ±0.10 ppm of Fo in 3 min, ±0.01 ppm in 5 min	
	Duty Cycle	50 ±10%	
	Load	2 Gates/20 pF max	
	Aging Adjustment	External 10 k pot/voltage	
	Deviation	±5.0 x 10^{-7}	
	Slope	Positive	
	Phase Noise		
	1 Hz	-90 dBc/Hz	
	10 Hz	-120 dBc/Hz	
	100 Hz	-140dBc/Hz	
	1 kHz	-150 dBc/Hz	
	10 kHz	-155 dBc/Hz	
	Sinewave Version		
	Spurious	-75 dBc max	
	Harmonics	-30 dBc max	
	Load	50 Ω to 1 k Ω	
	Output Level	+7 dBm min into 50 Ω	
	HCMOS Version		
	Duty Cycle	40/60	
	Load	2 Gates	

T \ S	A	C	D	E	F	G	J	K
1	C	C	C	A	C	C	S	C
8	C	C	C	C	C	A	C	S
B	C	A	C	C	C	S	N	N
C	A	C	C	C	S	N	N	N

A = AT Cut
C = Consult Factory
S = SC Cut
N = Not Available

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