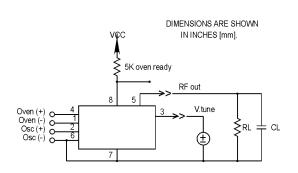
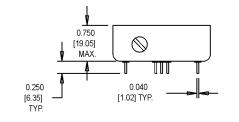
MXO5019 Series 2x2 in., 12.0 Volt, CMOS/Sinewave, OCXO

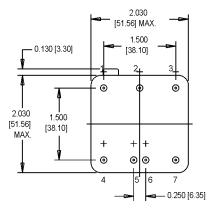


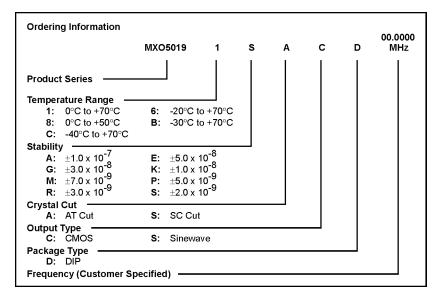


- Available in AT or SC cut, featuring low phase noise and voltage control
- Ideal for PCS & cellular base stations and medical instrumentation









Pin Connections

PIN	FUNCTION		
1	Oven Supply Return		
2	Oscillator Supply (+)		
3 Frequency Adjust 4 Oven Supply (+)			
6	RF Ground & Osc. Supply Return		
7	Case Ground		
8	Oven Ready (Optional)		

M-tron reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of such product.

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 M-tron Industries Limited, 1104 Shanghai Industrial Investment Building, 48-62 Hennessy Road, Wanchai, Hong Kong, China Phone: 852-2866-8023 Fax: 852-2529-1822

MXO5019 Series 2x2 in., 12.0 Volt, CMOS/Sinewave, OCXO





	PARAMETER	SC-cut	AT-cut		
	Frequency Range	10 MHz			
	Temperature Range	-20°C to +70°C			
[Temperature Stability	±1.0 x 10 ⁻⁸	±5.0 x 10 ⁻⁸		
	Supply Voltage	+15 Vdc oven (+12 Vdc osc)	+15 Vdc oven (+12 Vdc osc)		
	Aging Over 1 Year	±1.5 x 10 ⁻⁷	±2.0 x 10 ⁻⁷		
	Aging Per Day	±5.0 x 10 ⁻¹⁰			
	Turn On	600 mA max			
Electrical Specifications	Current	300 mA max @ 25°C steady state			
	Warm-up Time @ 25°C	To within ±0.10 ppm of Fo in 2.5 min, ±0.01 ppm in 5 min			
	Load Stability	±1.0 x 10 ⁻⁹			
	Aging Adjustment	External 10 k pot/voltage			
	Voltage Range	0.5 V to 10 V			
	Deviation	±3.0 x 10 ⁻⁷			
	Slope	Positive			
al S	Phase Noise				
ectrica	1 Hz	-90 dBc/Hz	-75 dBc/Hz		
	10 Hz	-120 dBc/Hz	-110 dBc/Hz		
ш	100 Hz	-145 dBc/Hz	-140 dBc/Hz		
	1 kHz	-155 dBc/Hz	-155 dBc/Hz		
ŀ	10 kHz	-160 dBc/Hz	-160 dBc/Hz		
	Sinewave Version				
	Spurious	-75 dB	ic max		
	Harmonics	-20 dBc max			
	Load	50 Ω to	3 k Ω		
	Output Level	+7 dBm min into 50 Ω			
	HCMOS Version				
	Duty Cycle	40/60			
	Load	2 Gates			

\S	Α	Е	G	к	м	Р	R	s
1	С	С	А	С	С	С	s	Ν
6	С	А	С	S	Ν	Ν	Ν	Ν
8	С	С	С	А	С	С	С	S
В	С	А	С	С	С	S	Ν	Ν
С	А	С	С	С	S	N	N	Ν

 $\begin{array}{l} \mathsf{A} = \mathsf{AT} \ \mathsf{Cut} \\ \mathsf{S} = \mathsf{SC} \ \mathsf{Cut} \\ \mathsf{C} = \mathsf{Consult} \ \mathsf{Factory} \\ \mathsf{N} = \mathsf{Not} \ \mathsf{Available} \end{array}$

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