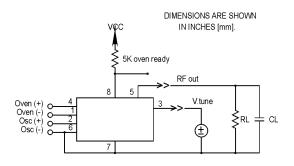
MXO5019 Series

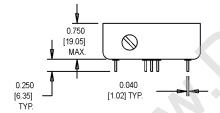
2x2 in., 12.0 Volt, CMOS/Sinewave, OCXO

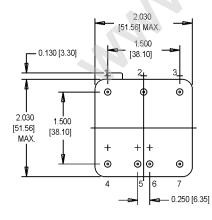


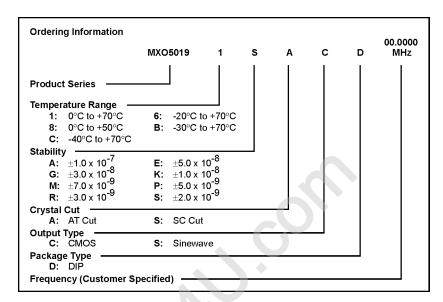


- Available in AT or SC cut, featuring low phase noise and voltage control
- Ideal for PCS & cellular base stations and medical instrumentation









Pin Connections

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.

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





	PARAMETER	SC-cut	AT-cut			
Electrical Specifications	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				
	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				
	Phase Noise					
	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			
	10 kHz	-160 dBc/Hz	-160 dBc/Hz			
	Sinewave Version					
	Spurious	-75 dBc 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				

/ / T	Α	Е	G	к	М	P	R	s
1	C	O	Α	U	C	U	S	N
6	C	Α	С	S	Ν	Ν	N	N
8	O	O	C	Α	O	O	O	s
В	С	Α	С	С	С	S	N	N
C	Α	C	С	C	S	Ν	N	Ν

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

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