

CTS[®] CORPORATION

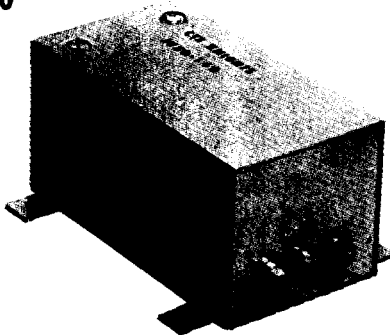
Around The World,
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FREQUENCY CONTROLS KNIGHTS CRYSTALS AND OSCILLATORS

400 Reimann Ave., Sandwich, IL 60548 815-786-8411 FAX: 815-786-3600

OVENIZED CRYSTAL OSCILLATORS TELECOMMUNICATIONS - OVENIZED OSCILLATOR WITH STANDARD TELECOMMUNICATION FREQUENCIES

JKXO-140

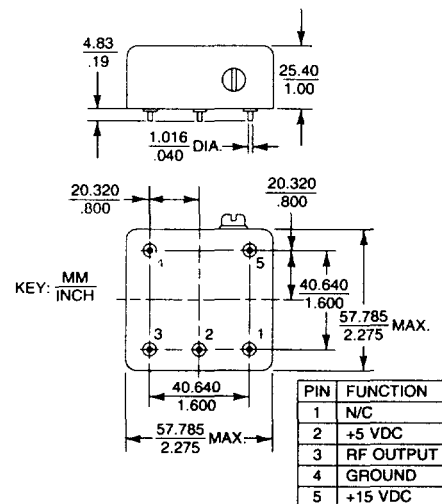
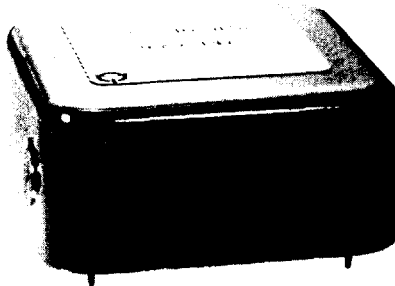


SPECIFICATIONS

CENTER FREQUENCIES (MHz)	5.0, 5.12, 6.176, 10.0, 10.24, 12.352
INPUT VOLTAGE	+24 VDC
INPUT POWER	8 Watts maximum @ turn-on 3.5 Watts stabilized @ +25°C
FREQUENCY STABILITY:	
vs. Temperature	$3 \times 10^{-10}/15^{\circ}\text{C}$ (0°C to +55°C)
vs. Time	$\pm 3 \times 10^{-10}$ /day after 30 days $\pm 2 \times 10^{-4}$ /year $\pm 5 \times 10^{-10}$ /20 years
OUTPUT	2 TTL loads
ELECTRICAL ADJUSTMENT	$\pm 5 \times 10^{-4}$ minimum for ± 5 VDC
SIZE	2.30" x 4.50" x 2.10" H. 58.42 x 114.3 x 53.34

OVENIZED CRYSTAL OSCILLATORS SMALL SIZE- LOW POWER CONSUMPTION OVENIZED OSCILLATOR

JKXO-141



FREQUENCY		5.0 MHz*		
OUTPUT LEVEL		TTL with fanout of 10 LS TTL loads		
FREQUENCY ADJUSTMENT		Sufficient for 20 Yrs. aging		
OPERATING TEMPERATURE RANGE		0°C to +60°C		
FREQUENCY STABILITY VS.		JKXO-141-1	JKXO-141-2	JKXO-141-3
TEMPERATURE	(0°C -60°C)	8 x 10 ⁴	3 x 10 ⁴	3 x 10 ⁴
	Any 15°C Change	—	6 x 10 ⁴	1.4 x 10 ⁴
AGING	Per Day	1x 10 ⁴	3 x 10 ⁴	5 x 10 ⁴
	Per Year	1.5 x 10 ⁴	5 x 10 ⁴	1.5 x 10 ⁴
	Per 20 Years	3 x 10 ⁴	1 x 10 ⁴	5 x 10 ⁴
SUPPLY VOLTAGE		5 X 10 ⁴ /%	5 X 10 ⁴ /%	5 X 10 ⁴ /%
WARM UP	20 minutes	1 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁷
	8 Hours	—	—	1 x 10 ⁴
INPUT POWER		+5Vdc +5%	Ⓢ 50ma MAX Ⓢ 500ma MAX (Cold Start) Ⓢ 150ma Hot (35°C) Typ.	
		+15Vdc +5%		
SIZE		2.25" X 2.25" X 1" H		
RELIABILITY		Better than 250,000 Hrs MTBF		
VIBRATION/SHOCK		2 G, 10-500 Hz/30 G, 11ms		

*Consult factory for other frequencies and options