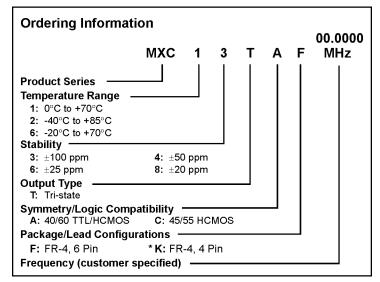
MXC Series 3.3 Volt FR-4 Based HCMOS/TTL Compatible Surface Mount Oscillators







* 4 Pin available to 77.760 MHz only.

	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition	
	Frequency Range	F	0.75		160	MHz		
	Frequency Stability	∆F/F	(See Ordering Information)			See Note 1		
	Operating Temperature	Ts	(See Order	ring Inforr	nation)			
	Storage Temperature	Та	-55		+125	°C		
	Input Voltage	Vdd	3.0	3.3	3.6	VDC		
	Input Current	ldd						
s	0.75 MHz to 36 MHz				11/20	mA	4-Pin Pkg./ 6-Pin Pkg.	
Environmental Electrical Specifications	36 MHz to 77.76 MHz				15/50	mA	4-Pin Pkg./ 6-Pin Pkg.	
icat	77.76 Mhz to 160 MHz				50	mA	6-Pin Pkg.	
scif	Symmetry (Duty Cycle)		(See Order	ring Inforr	nation)			
Spe	Load		5 TTL or 5	50 pF Max	(See Note 2	
al	Rise/Fall Time	Tr/Tf			10	ns	0.7500 to 30.000 MHz	
tric					5	ns	30.001 to 160.000 MHz	
lec	Logic "1" Level	Voh	2.4			VDC	TTL Load	
ш			90			%	HCMOS Load	
	Logic "0" Level	Vol			10	VDC	TTL Load	
					0.4	%	HCMOS Load	
	Cycle to Cycle Jitter						1 Sigma	
	@ 19.44 MHz			7	12	ps RMS		
	@ 38.88 MHz			8	13	ps RMS		
	@ 77.76 MHz			10	15	ps RMS		
	@ 155.52 MHz			10	15	ps RMS		
	Aging	< 2 ppm f	or first year					
		< 1 ppm/y	1 ppm/year following the first year					
tal								
ieu	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C						
Lu Lu	Vibration	Per MIL-STD-202, Method 201 & 204						
virc	Reflow Solder Conditions	240°C for	240°C for 10 s max.					
Ēŋ	Solderability	Per EIAJ-	STD-002					

1. Calibration, deviation over temperature, shock, vibration, and aging.

2. See load circuit diagram #2 on page 92.

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

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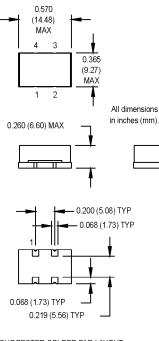




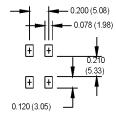
Pin Connections

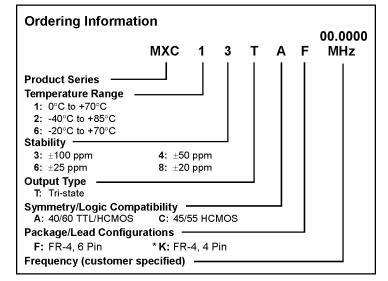
FUNCTION	4 Pin	6 Pin
N/C		1
Tri-state	1	2
Ground	2	3
Output	3	4
N/C		5
+Vdd	4	6

PACKAGE 1 (K)



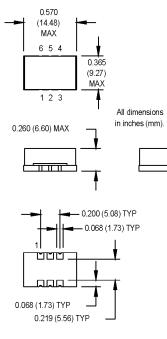
SUGGESTED SOLDER PAD LAYOUT



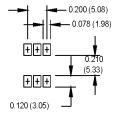


* 4 Pin available to 77.760 MHz only.

PACKAGE 2 (F)



SUGGESTED SOLDER PAD LAYOUT



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