

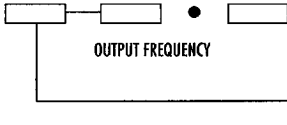
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CRYSTAL OSCILLATORS ECONOMICAL - CMOS/10TTL COMPATIBLE, 1 TO 80 MHZ

MXO 45 SERIES

Operating temperature: 0 to 70 °C
Drives 50 pF load

ORDERING INFORMATION



Package Type/Option	Model	Figure
14 Pin/DIP/STD Output	MXO-45	Figure D
14 Pin/DIP/TRISTATE Output	MXO-45T	Figure D
8 Pin DIP/STD Output	MXO-45HS	Figure F
8 Pin DIP/TRISTATE Output	MXO-45HST	Figure F

ELECTRICAL CHARACTERISTICS (OVER 0° TO 70°C TEMPERATURE RANGE)

FREQUENCY RANGE.....	1.000 MHz to 80.000 MHz
FREQUENCY STABILITY.....	±0.1% (100 ppm)
OPERATING TEMPERATURE.....	0° to 70°C
STORAGE TEMPERATURE.....	-55° to +125°C
SUPPLY VOLTAGE.....	5.0 Volts (DC) ±10 %
SUPPLY CURRENT.....	30 mA Max (1-30 MHz), 50 mA Max (30.1-80 MHz)
DUTY CYCLE (SYMMETRY).....	40%/60%
RISE & FALL TIME.....	5nS max 1-80 MHz (TTL) 10nS max 1-30 MHz (CMOS) 5nS max 30.1-80 MHz (CMOS)
OUTPUT LEVEL.....	TTL: VOL = +.4V max, VOH = +2.4 min CMOS: VOL = +.5V max, VOH = Vdd-.5V min
OUTPUT LOAD.....	1 to 10 TTL Gate: 50 pF max (CMOS) 1-50 MHz 30 pF max (CMOS) 30.1-80 MHz
START UP TIME.....	15 Msec.

Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, first year of aging, shock, and vibration

CRYSTAL OSCILLATORS TRUE TTL 14 PIN DIP SEE FIGURE D

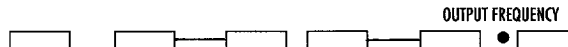
MXO 53/55L SERIES

Frequency range: MXO 55L 2.4576 to 70 MHz
Frequency range: MXO 53L 15 to 50 MHz

ELECTRICAL CHARACTERISTICS

SPECIFICATIONS	MODEL	FREQUENCY RANGE	SYMBOL	MINIMUM	TYPICAL	MAXIMUM	UNITS
Operating Voltage	A, B	2.4576 to 70 MHz	Vcc	4.50	5.00	5.50	v
Maximum Supply Voltage			Vcc Max.			7.00	
Supply Current	A	4.9152 to 25 MHz	Icc		20	35	mA
		>25 to 70 MHz		33	65		
	B	2.4576 to <4.9152 MHz		30	50		
Output Voltage-HI	A, B	2.4576 to 70 MHz	VOH	2.40	3.60		v
Output Voltage-LO			VOL		0.30	0.40	
Rise & Fall Time (measured between 0.5V & 2.4V)	A	4.9152 to 25 MHz	tr & tf		3	5	nS
		>25 to 70 MHz		2	4		
	B	2.4576 to <4.9152 MHz		3	5		
Start-up Time	A, B	2.4576 to 11 MHz	ts		8	15	mS
	A	>11 to 25 MHz		2	5		
	A	>25 to 70 MHz		8	15		
	B	2.4576 to <4.9152 MHz		45	55		
Duty Cycle (Uptime) (measured @ 1.5V)	A	4.9152 to 70 MHz		40	50	60	
	B	2.4576 to <4.9152 MHz		45	50	55	
Enable Input Load Factor	AE	4.9152 to 70 MHz	FI			2	TTL Loads
Fanout (per output)	A, B	2.4576 to 25.0 MHz	FO			10	TTL
						5	Gates

ORDERING INFORMATION



Package Type/Option	Model
14 Pin DIP/STD Output	MXO-55L
14 Pin DIP/TRISTATE Output	MXO-53L

Frequency Range	Code
4.9152 MHz to 70 MHz Basic Oscillator (No enable)	GA
4.9152 MHz to 32 MHz Basic Osc. with enable (Note)	GAE
2.4576 MHz to >4.9152 MHz Basic Osc. with Dividers	GB

Frequency Tol	Code
±.01% (100 ppm)	2
±.005% (50 ppm)	3
±.05% (500 ppm)	4

Operating Temp. Range	Code
0°C to +70°C	C

Note: PIN 1 must not be left floating.