

CTS CORPORATION

KNIGHTS DIVISION

SPECIALISTS IN FREQUENCY MANAGEMENT

400E Reimann Ave., Sandwich, IL 60548 • 815/786-8411 • TWX 910-642-0860 Cable CTS

JKTO-79 SERIES

TTL logic outputs
Electrically similar to MXO-55
TO-8 compatible
500 KHz to 70 MHz

ENABLE FUNCTION

4 MHz to 12 MHz:

HI: Enables oscillator

LO: Disables oscillator
(Q_A latches LO,
Q_B latches HI)

500 KHz to <4 MHz:

LO: Enables oscillator

HI: Disables oscillator
(Q_A & Q_B latch LO)

ORDERING INFORMATION

JKTO-79

OUTPUT FREQUENCY

FREQUENCY AND MODEL AND OPTION	CODE
8.0 MHz to 60.0 MHz Basic oscillator No enable	A
500 KHz to 8.0 MHz Oscillator with divider No enable	B
4.0 MHz to 12.0 MHz Oscillator with Complementary output No enable	C
Oscillator with dual outputs and no enable Q _A = 4X Q _B Q _B = 1 to 3 MHz	D28
Oscillator with dual outputs and no enable Q _A = 2X Q _B Q _B = 1 to 3 MHz	D48
Any of above (below 12 MHz) with enable	AE BE CE D28E D48E

FREQUENCY TOL. (NOTE 1)	CODE
±.1% (1000 ppm)	1
±.01% (100 ppm)	2
±.005% (50 ppm)	3
±.05% (500 ppm)	4
±.0025% (25 ppm) (0°C to 70°C only)	5

OPERATING TEMP. RANGE	CODE
0°C to +70°C	C
-40°C to +85°C	I
-55°C to +105°C	P
-55°C to +125°C	M

PIN	CONNECTION
1	Enable/disable option (otherwise NC)
2	Internal connection
3	Output A (Q _A) (otherwise NC)
4	Ground
5	Output B (Q _B)
6	Internal connection
7	NC (Model A) Internal connection (Model B, C, D) Crystal frequency (Model C, D)
8	Vcc

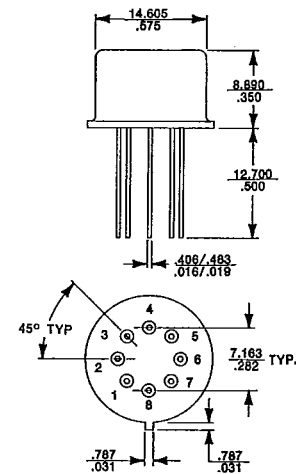


FIG. 11 TO-8 PACKAGE

MXO-53 SERIES

3-state, TTL logic output
14-pin DIP compatible
(MXO-55 style)
2.4576 MHz to 70 MHz

Designed for automated, in-circuit, and functional board test applications where a high impedance output state is required to allow the injection of external test signals.

ORDERING INFORMATION

MXO-53

OUTPUT FREQUENCY (PIN 5)

FREQUENCY & MODEL	CODE
4.9152 to 70 MHz Basic 3-state oscillator	GA
2.4516 to 4.9152 MHz 3-state oscillator with dividers	GB

FREQUENCY TOLERANCE	CODE
±.1% (1000 ppm)	1
±.01% (100 ppm)	2
±.005% (50 ppm)	3
±.05% (500 ppm)	4
±.0025% (25 ppm) (0°C to 70°C only)	5

OPERATING TEMP. RANGE	CODE
0°C to +70°C	C
-40°C to +85°C	I

PIN CONNECTIONS

Pin 1: Enable

Pin 7: Ground/case

Pin 8: Output

Pin 14: +5 VDC

ENABLE FUNCTION

HI: Enables oscillator

LO: Disables oscillator
(HI impedance output)

ELECTRICAL SPECIFICATIONS (SIMILAR TO MXO-55 EXCEPT AS NOTED BELOW)

SPECIFICATION	MODEL	FREQUENCY RANGE	TEMPERATURE RANGE	SYMBOL	MINIMUM	TYPICAL	MAXIMUM	UNITS
Supply Current	A	4.9152 to 25 MHz	-40°C to +85°C	I _{CC}		35	55	mA
		>25 to 70 MHz				50	80	
	B	2.4576 to <4.9152 MHz				60	100	
Duty Cycle (uptime) (measured @ 1.5V)	A, B	2.4576 to 70 MHz	-40°C to +85°C		40	50	60	%
High Impedance Output Current	A, B	2.4576 to 70 MHz	-40°C to +85°C	I _O (OFF)			50	μA

CTS — QUALITY, FREQUENCY CONTROL COMPONENTS FOR RELIABLE ELECTRONICS