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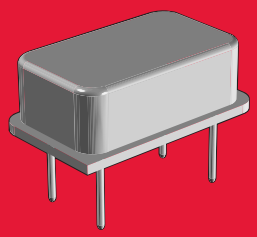
RXD T SERIES



FEATURES

- 10 TTL output load
- Low cost
- Wide frequency range
- Industry standard footprint
- Resistance weld package
- 3.3V operation (optional)

CLOCK OSCILLATOR

The T clock oscillator is fully compatible with TTL circuitry. The metal package with pin #7 case ground acts as shielding to minimize radiation.

PART NUMBERING GUIDE *"EXAMPLE"*

PART NUMBER *	FREQUENCY STABILITY
T2	±100 PPM
T1	±50 PPM
T0	±25 PPM

** Complete part number to include frequency. i.e. T2-10.000MHz*

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	FREQUENCY RANGE	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
FREQUENCY RANGE (f_O)	1.000 ~ 150.000		1.000		150.000	MHz
OPERATING TEMP. RANGE (T_{OPR})	1.000 ~ 150.000		0		+70	˚C
STORAGE TEMP. RANGE (T_{STG})	1.000 ~ 150.000		-55		+125	˚C
FREQUENCY STABILITY	1.000 ~ 150.000	All conditions*	-100		+100	PPM
INPUT CURRENT (I_{DD})	1.000 ~ 7.999	max. load			15	mA
	8.000 ~ 23.999	max. load			30	mA
	24.000 ~ 69.999	max. load			70	mA
	70.000 ~ 150.000	max. load			80	mA
OUTPUT SYMMETRY	1.000 ~ 150.00	1.4V level	40	50 ±3	60	%
						%
RISE TIME (T_R)	1.000 ~ 24.999	0.4V ~ 2.4V			10	nS
	25.000 ~ 69.999	0.5V ~ 2.4V			5	nS
	70.000 ~ 150.000	0.5V ~ 2.4V			4	nS
FALL TIME (T_F)	1.000 ~ 24.999	2.4V ~ 0.4V			10	nS
	25.000 ~ 69.999	2.4V ~ 0.5V			5	nS
	70.000 ~ 150.000	2.4V ~ 0.5V			4	nS
OUTPUT VOLTAGE (V_{OL})	1.000 ~ 24.999	I_{OL} = 20 mA			0.4	V
(V_{OL})	25.000 ~ 150.000	I_{OL} = 20 mA			0.5	V
(V_{OH})	70.000 ~ 150.000	I_{OH} = 1 mA	2.4			V
OUTPUT CURRENT (I_{OL})	1.000 ~ 150.000	V_{OL} = 0.5 V			20	mA
(I_{OH})	1.000 ~ 150.000	V_{OH} = 2.4 V			1.0	mA
OUTPUT LOAD	1.000 ~ 150.000				10	TTL
START-UP TIME (T_S)	1.000 ~ 3.499				20	mS
	3.500 ~ 3.999				35	mS
	4.000 ~ 5.999				30	mS
	6.000 ~ 19.999				20	mS
	20.000 ~ 150.000				15	mS
SUPPLY VOLTAGE	1.000 ~ 150.000	+5.0 ±0.25			–	V_{DC}

** Inclusive of 25˚C tolerance, operating temperature range, input voltage change, load change, aging, shock and vibration.*

PACKAGE DIMENSIONS (mm)

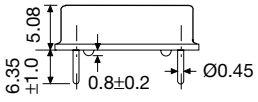
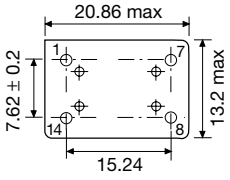


Figure 1) T Series – Side and Bottom views



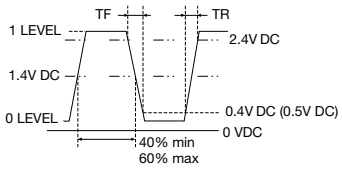


Figure 2) Output Wave Form

PIN CONNECTIONS	
#1	NC
#7	CASE GND
#8	OUTPUT
#14	+5 V DC

Figure 3) Pin Connections

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