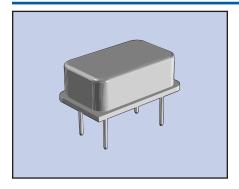
ECS-100 SERIES CLOCK OSCILLATOR





The ECS-100 clock oscillator is fully compatible with TTL circuitry. The metal package with pin #7 case ground acts as shielding to minimize radiation.

FEATURES

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

PART NUMBERING GUIDE

PART NUMBER*	FREQUENCY STABILITY
ECS-100A	±100 PPM
ECS-100B	±50 PPM
ECS-100C	±25 PPM

^{*} Complete part number to include frequency. i.e. ECS-100A-100 (100 = 10.000MHz)

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

PARAMETERS	FREQUENCY RANGE	CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
FREQUENCY RANGE (f ₀)	1.000 ~ 150.000		1.000		150.000	MHz
OPERATING TEMP. RANGE (TOPR)	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 (IDD)	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 ~ 7.999	1.4V level	45	50 ±3	55	%
OUTPUT SYMMETRY	8.000 ~ 150.000	1.4V level	40	50 ±3	60	%
RISE TIME (Tr)	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
	1.000 ~ 24.999	2.4V ~ 0.4V			10	nS
FALL TIME (Tr)	25.000 ~ 69.999	2.4V ~ 0.5V			5	nS
	70.000 ~ 150.000	2.4V ~ 0.5V			4	nS
(VoL)	1.000 ~ 24.999	IoL = 20 mA			0.4	V
OUTPUT VOLTAGE (Vol)	25.000 ~ 150.000	IoL = 20 mA			0.5	V
(VoH)	70.000 ~ 150.000	Iон = 1 mA	2.4			V
OUTPUT CURRENT (IOL)	1.000 ~ 150.000	Vol = 0.5 V			20	mA
	1.000 ~ 150.000	VoH = 2.4 V			1.0	mA
OUTPUT LOAD	1.000 ~ 150.000				10	TTL
START-UP TIME (Ts)	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			_	VDC

^{*} Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock and vibration.

PACKAGE DIMENSIONS (mm)

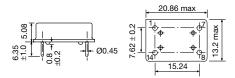


Figure 1) ECS-100 Series Side and Bottom views

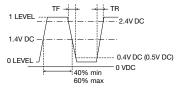


Figure 2) Output Wave Form

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

Figure 3) Pin Connections

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ECS:

ECS-100A-14.7456 ECS-100A-32.514 ECS-100A-8.0 ECS-100A-25.0 ECS-100A-2.0 ECS-100A-50.0 ECS-100A-36.864 ECS-100A-25.175 ECS-100A-10.0 ECS-100A-20.0 ECS-100A-18.0 ECS-100A-5.0 ECS-100A-6.144 ECS-100A-1.0 ECS-100A-40.0 ECS-100A-28.322 ECS-100A-110.5 ECS-100A-120 ECS-100A-060 ECS-100A-080 ECS-100A-020 ECS-100A-010 ECS-100A-040 ECS-100A-320 ECS-100A-098.3 ECS-100A-018 ECS-100A-240 ECS-100A-251.7 ECS-100A-480 ECS-100A-143 ECS-100A-073 ECS-100A-147.4 ECS-100A-196.6 ECS-100A-184 ECS-100A-050 ECS-100A-049 ECS-100A-160 ECS-100A-200 ECS-100A-250 ECS-100A-400 ECS-100A-500 ECS-100A-100 ECS-100A-300 ECS-100A-061 ECS-100A-640 ECS-100A-036 ECS-100A-051 ECS-100A-012.2 ECS-100A-035 ECS-100A-283.2 ECS-100A-325.1 ECS-100A-350 ECS-100A-666 ECS-100A-162.5 ECS-100A-180 ECS-100A-024 ECS-100A-092.1