

# SPECIFICATIONS

All specifications are tested in accordance with standard California Instruments test procedures. All specifications apply over the frequency range from 45Hz to 10KHz. Consult the manual addendum for the actual oscillator output frequency.

MODEL NUMBER:	815T-Freq-. 1-1	815T-Freq-. 1-3*	815T-Freq-. 1-2
No. of Phases:	single phase	three phase	two phase
Nominal Phase Shigt:	Not applicable	$\pm 120$ degrees	+ 90 degrees
Phase Sequence:	Not applicable	ABC sequence	CA sequence
Amplitude Tracking: (with amplitude potentiometer adjusted from 75% of full output to full output)**	Not applicable	1.0 per cent of full scale	1.0 per cent of full scale
Phase Accuracy at 25°C: (with amplitude potentiometer adjusted from 75% of full output to full output)**	Not applicable	$\pm 1.0$ degree maximum.	$\pm 1.0$ degree maximum.

## SPECIFICATIONS COMMON TO ALL MODELS

Frequency	Single Fixed Frequency, 45Hz to 10KHz.
Frequency Accuracy at 25°C:	$\pm 0.10$ percent.
Frequency Temperature Coefficient:	$\pm 0.02$ percent/°C maximum
Output Amplitude:	5.0 volts rms minimum for single phase versions; 0 to greater than 5 volts rms for multiphase versions.
Amplitude Stability: (after one hour warm-up)	$\pm 0.25$ percent for 24 hours at 25°C $\pm 0.02$ percent/°C maximum
Total Harmonic Distortion:	0.2 percent maximum

Input Power:

±25 volts DC at approximately  
18 milliamperes available from  
power source for single phase  
versions:

±25 volts DC at approximately  
55 milliamperes available from  
power source for three phase  
versions.

Operating Temperature Range:

0 to 55°C for all versions.

Dimensions:

3-1/2" high x 8" wide x 7" deep  
for mounting into a California  
Instruments Solid State Invertron.

Front Panel Finish:

Grey 26440. Federal Standard 595.

\* Order Model 815T-Freq-. 1-3D for use in the three phase open  
delta configuration.

\*\* This is a new improved specification. Oscillators manufactured prior to  
October 1974 were specified at 2% amplitude tracking with the AMPLITUDE  
control fully clockwise and 2° phase error with the AMPLITUDE control  
fully clockwise. These early oscillators were not specified as to additional  
phase and amplitude tracking errors when the AMPLITUDE control was turn-  
ed counter clockwise from the fully clockwise position.

Step 5.6.4 was added to this manual at the "D" Revision to test for these  
improved characteristics in oscillators manufactured after October, 1974.