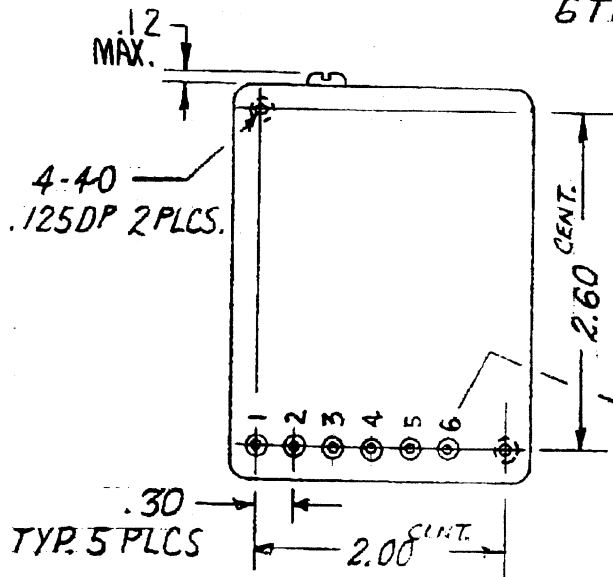
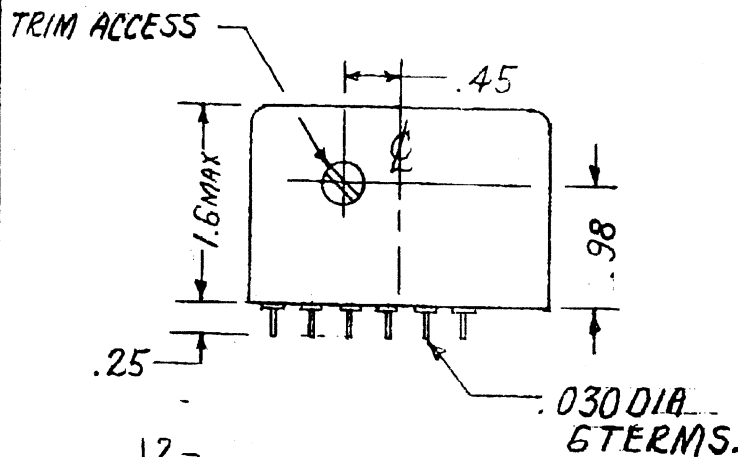


PIN	FUNCTION
1	B+ OSC.
2	R.F. OUTPUT
3	OVDC
4	B+ OVEN
5	FINE TRIM-HIGH
6	FINE TRIM-LOW

NOTE: PIN 3 CONNECTS TO CASE THRU .014f.



NOS REF. ONLY. NOT STAMPED ON UNIT.

		OSCILLATORS OVENS		CHARLOTTESVILLE, VIRGINIA			
NAME: <b>OUTLINE DRAWING</b> <b>OCCO 118-10</b>		CODE ID NO <b>31785</b>	SCALE <b>3/32:1</b>	DWN. DATE <b>PAD 2-17-86</b>	APPR. <i>[Signature]</i>	SHT / OF / <b>125-222</b>	
A REVISED SEAL SCREW LRB 2-2-89				TOLERANCE ANGLES: $\pm 1$ DEG FRAC: $\pm 1/32$ DEC: .XX $\pm .015$ , .XXX $\pm .010$ MAT'L: <b>CRS</b>			
LET	REVISION	BY	DATE	LET	REVISION	BY	DATE
				FIN: <b>BRIGHT NICKEL</b> MARK: <b>LABEL</b>			

1. GENERAL

This specification defines the operating characteristics of an ovenized crystal oscillator. Long term stability is assured through use of premium components.

2. OUTPUT

- 2.1 Frequency 10.000 MHz
- 2.2 Waveform Sine wave
- 2.3 Levels 1 Vpp ±15%
- 2.4 Load 50 Ω ±5%
- 2.5 Harmonics < 30 dBc

3. STABILITY

- 3.1 Ambient < ±5x10<sup>-9</sup> -30°C to +60°C (referenced to +25°C)
- 3.2 Aging < ±7x10<sup>-10</sup> /day averaged over 3 days
- 3.3 Voltage < 2x10<sup>-10</sup> /2% change on any input voltage
- 3.4 Short term < 1x10<sup>-10</sup> rms over 10 consecutive 10 second counts
- 3.5 Load < 5x10<sup>-10</sup> /20%
- 3.6 Warm-up < ±5x10<sup>-8</sup> in 30 minutes @ -20°C referenced to 2 hours

4. FREQUENCY ADJUSTMENT (MECHANICAL)

- 4.1 Range > ±1 PPM
- 4.2 Resolution < ±3x10<sup>-9</sup>
- 4.3 Control Multi-turn precision trimmer

5. FREQUENCY ADJUSTMENT (ELECTRICAL)

- 5.1 Range > 4x10<sup>-8</sup>
- 5.2 Control External 10 kΩ variable resistor between pins 5 & 6
- 5.3 Slope Frequency is high when pins 5 & 6 are shorted

6. INPUT VOLTAGE (OSC)

- 6.1 Voltage +10 VDC ±3%
- 6.2 Regulation ±1%
- 6.3 Current < 35 mA

<b>ISOTEMP</b> <small>RESEARCH INC</small>		<small>OSCILLATORS OVENS</small>		<b>CHARLOTTESVILLE, VIRGINIA</b>				
NAME: CRYSTAL OSCILLATOR SPECIFICATION				CODE ID NO <b>31785</b>	SCALE N/A	DWN. LRB	DATE 1/88	APPR. TST
				<b>TOLERANCE</b>				
				ANGLES: ±1 DEG				
				FRAC: ± 1/32				
				DEC: .XX ±.015 .XXX ±.010				
				MAT'L:				
				FIN:				
				MARK:				
LET	REVISION	BY	DATE	LET	REVISION	BY	DATE	

SH1 1 OF 2  
 PART NO. 114-297

7. INPUT VOLTAGE (OVEN)

7.1 Voltage +13.5 VDC ±10%  
 7.2 Regulation ±2%  
 7.3 Power < 8.8 watts @ 13.5 VDC

8. MECHANICAL

8.1 Applicable series OCXO 118 series  
 8.2 Model number OCXO 118-10  
 8.3 Outline drawing 125-222



OSCILLATORS  
OVENS

CHARLOTTESVILLE, VIRGINIA

NAME: CRYSTAL OSCILLATOR SPECIFICATION

CODE ID NO	SCALE	DWN.	DATE	APPR.
31785	N/A	LRB	1/88	TST

TOLERANCE

ANGLES: ±1 DEG  
 FRAC: ± 1/32  
 DEC: .XX ±.015, .XXX ±.010  
 MAT'L:

FIN:  
MARK:

LET	REVISION	BY	DATE	LET	REVISION	BY	DATE
A	Rev. & Redrawn	LH	12/88				

SHIT 2 OF 2  
 PART NO. 114-297