



Polytec GmbH – Polytec-Platz 1 – 7 – 76337 Waldbronn – Germany
Tel: +49 7243 604-0 – Fax: +49 7243 69944 – E-Mail: wl@polytec.de

**MODEL VFE SERIES
VARIABLE FREQUENCY SOURCE**

- A/O FREQUENCY SHIFTING
- LDV APPLICATIONS
- INTERFEROMETRY
- STABLE FREQUENCY SOURCE
- COMPUTER INTERFACE AVAILABLE
- LOW LEVEL RF REFERENCE OUTPUT



SPECIFICATIONS

Frequency Setting Control	Front panel switches (standard all models)
Optional Addition Computer Interface ¹	RS-232 Serial Port (frequency setting)
Frequency Resolution	10 kHz
Frequency Access Time	< 10 msec
Frequency Stability	TCXO ² stability +/- 1 ppm (0-50°C)
Spurious Content	-45 dBc
CW RF Output Power Capability	0-specified RF output for level control 0-maximum
Amplitude Modulation ⁴	Analog (0-specified RF output for 0-1 volt input)
Harmonic Output	< -20 dBc (at full rated RF output)
Input / Output Impedance	50 ohms
RF Reference Output	+10 dBm
Connectors	BNC
Main Power	115/230 VAC, 50-60 Hz
Size	3.8(9.7)H x 13.5(34.3)D x 9.0(22.9)W inches(cm)

MODEL	<u>VFE-404B4</u>	<u>VFE-604B4</u>	<u>VFE-754B4</u>	<u>VFE-1202B4</u>	<u>VFE-2002B4</u>
Frequency Range	30-50 MHz	40-80 MHz	50-100 MHz	80-160 MHz	150-250 MHz
RF output capability ³	4 watts	4 watts	4 watts	2 watts	2 watts

¹ In model designation, change B to E.

² TCXO....Temperature Compensated Crystal Oscillator.

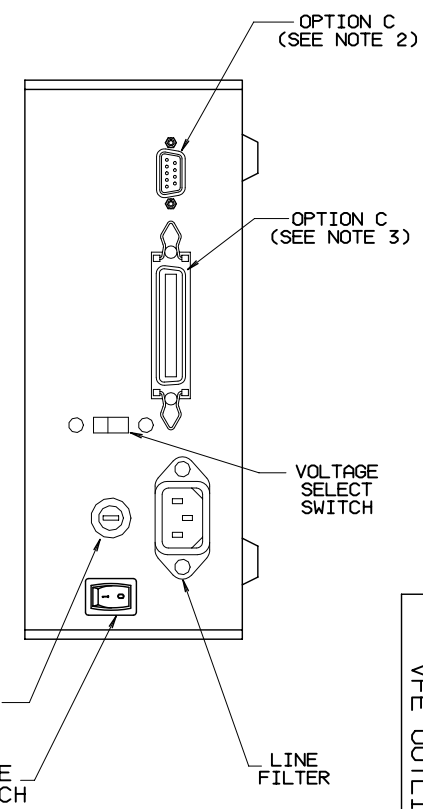
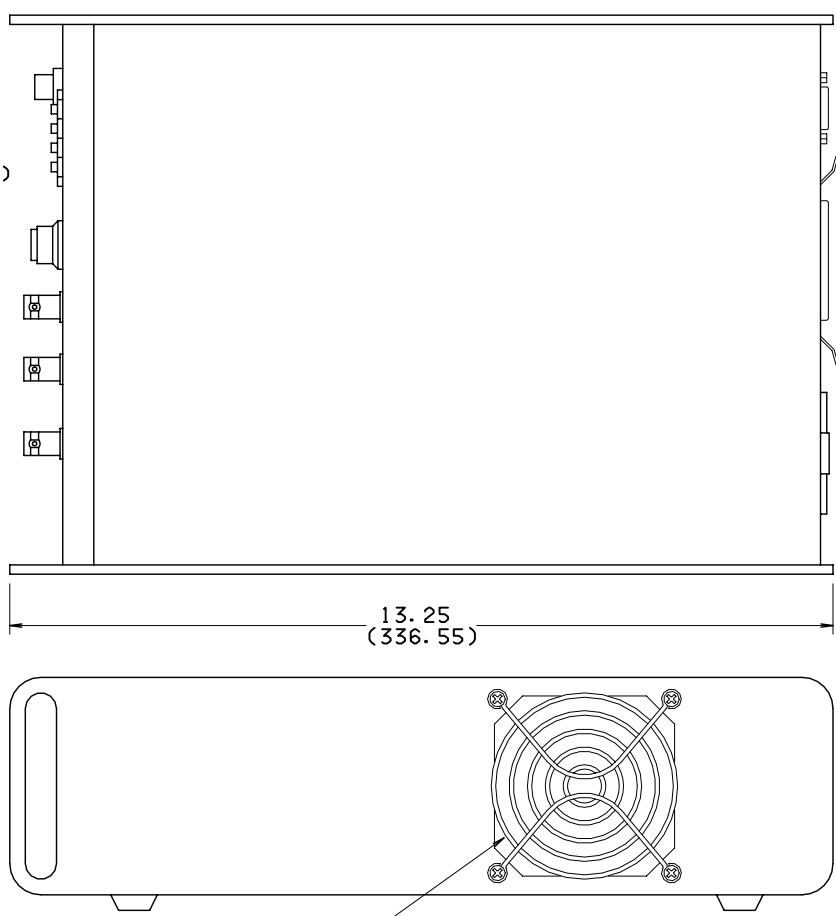
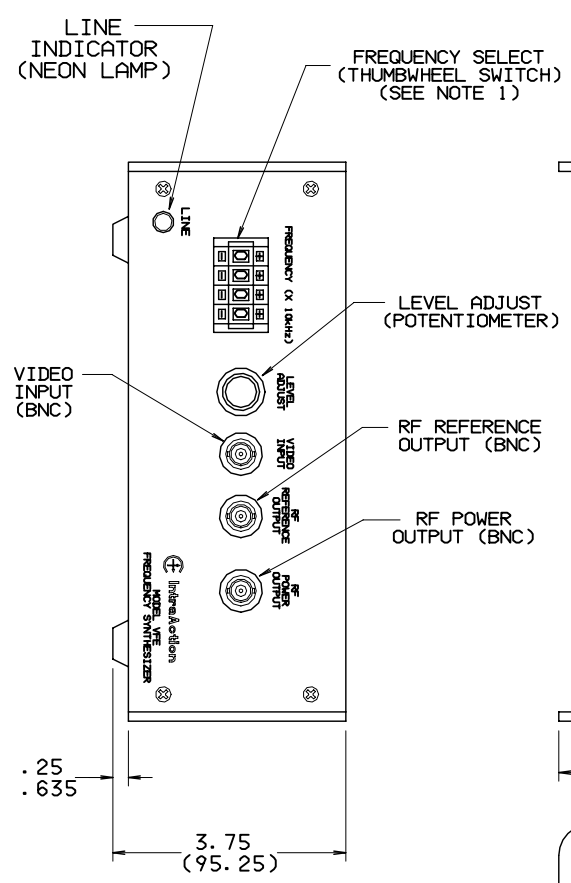
³ Other RF output power levels are available.

⁴ Optional: digital (T) and inverse digital (D) modulation capability available.

Note: Also available is the DFE series Dual Frequency Source with two RF outputs - one fixed frequency and one variable frequency.

REVISIONS		
ISSUE	DESCRIPTION	APPD/DATE
ORIGINAL	GJK 02-25-94	JFB

ALL REVISIONS TO THIS DRAWING MUST BE MADE ON THE CAD SYSTEM



.25
.635
3.75
(95.25)

9.00
228.6


13.25
(336.55)

LINE VOLTAGE:

STANDARD: 115/230 VAC, 50-60 Hz.
OPTION J: 100 VAC, 50-60 Hz.

NOTE:

- FOR VFEs WHICH OPERATE ABOVE 100 MHz, 5 DIGIT THUMBWHEEL SWITCH
FOR VFEs WHICH OPERATE BELOW 100 MHz, 4 DIGIT THUMBWHEEL SWITCH
- SERIAL INTERFACE (9 PIN D-SUB CONNECTOR)
- PARALLEL INTERFACE (CENTRONICS CONNECTOR)

UNLESS OTHERWISE SPECIFIED TOLERANCES AND DIMENSIONS ARE IN INCHES		APPROVED DATE JFB 02-25-94		 IntraAction Corp. 3719 WARREN AVE. BELLWOOD, IL 60104 PHONE (708) 547-6644
LINEAR : / ANGULAR ± / DIAMETERS ± / LIMITS APPLY BEFORE FINISHING DO NOT SCALE THIS PRINT		CHECKED DATE JFB 02-25-94		
MATERIAL		DRAWN DATE GJK 02-25-94		VFE SERIES VARIABLE FREQUENCY SOURCE
MFG. INSTR.		FINISH		
Q.C. INSTR.		SCALE. 65"=1"		FSCH NO. C SIZE DWG. NO. VFE OUTLINE A ISSUE
		UNIT WEIGHT		SHEET 1 OF 1

DWG NO VFE OUTLINE SH 1 ENG3108