

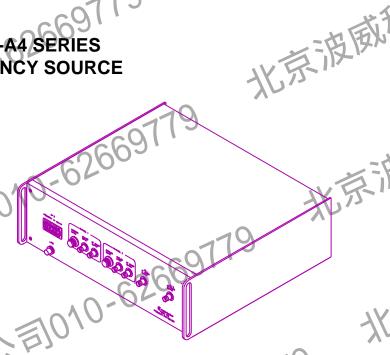
ELECTRONICS

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MODEL DFE-A4/SERIES **DUAL FREQUENCY SOURCE**

DESCRIPTION

The DFE Dual Frequency Source series are twochannel frequency generators capable of delivering up to four watts of RF power from each channel into a 50 ohm load. The DFE is used in applications where a very stable frequency difference is required. The fixed frequency and the variable frequency channels are both synthesized from the same temperature compensated crystal oscillator (TCXO). The variable frequency is set via front panel thumbwheel switches with a setting resolution of 10 kHz. Additional variable frequency control is available with optional parallel and serial port computer interfaces. Software is provided with the computer interface although instrument control software such as LabVIEW can be used. CW RF output is obtained



by adjusting the front panel Carrier Level control. Amplitude modulation is electronically controlled with a 0 to 1 volt signal applied to the Video Input. A fixed +10 dBm RF reference output is also provided from each channel.

SPECIFICATIONS

Variable Frequency Setting Resolution

Frequency Stability (0 to 50°C)

CW RF Output Power Capability

Amplitude Modulation²

Harmonics at 4 Watts

Extinction Ratio (on/off)

RF Reference Output

Input / Output Impedance

RF Connectors

Line Power

Size

10 kHz

1 ppm (TCXO stability)

4 watts (0-4 watts for level control 0 - maximum)

Analog (0-2 watts RF output for 0-1 volt input)

20 dBc

40 dB

+10 dBm

50 ohms

BNC

115/230 Vac, 50-60 Hz

5.5 H x 17.0 W x 13.5 D inches 14.0 H x 43.2 W x 34.3 D cm

DFE-404A4 DFE-1504A4 MODEL **DFE-604A4** DFE-1004A4 **DFE-804A4** Fixed Frequency¹ 40 MHz 60 MHz 100 MHz 80 MHz 150 MHz Variable Frequency 30-50 MHz 40-80 MHz 60-100 MHz

The fixed frequency can be specified as any fixed frequency within the variable frequency range.

² Optional digital modulation capability is also available. Input impedance is 50 ohms.





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