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MODEL DE SERIES DEFLECTOR DRIVER

DESCRIPTION

The Model DE series Deflector Drivers include a voltage controlled RF oscillator and a broadband RF power amplifier in a housing with power supply, RFI line filter, and line switch. An optional (M) analog amplitude modulation circuit is available. Standard frequency linearity is ± 0.25 percent. Standard frequency slew rate is 1 µsec for total frequency range. RF output power capability can be up to 10 watts for some models. Configuration options include a front panel user accessible connection between the voltage controlled oscillator and level/modulation circuit (N option) so that an external frequency



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source can be used in place of the internal voltage controlled oscillator. Also available is an optional front panel connection between the level/modulation circuit and the RF power amplifier (H option), to give the Model DE drivers capability to be used as a stand alone RF power amplifier. Drivers with option E provide a cw, +10 dBm, voltage controlled oscillator RF reference output.

Analog (1 volt peak-to-peak)
1 µsec (total frequency range)
Class AB
30 nsec
-20 dBc
100 percent
50 ohms
BNC
115/230 Vac, 50-60 Hz 100 Vac, 50-60 Hz (option J)
3.5 H x 9.0 W x 13.5 D 8.9 H x 22.9 W x 34.3 D

MODEL	DE-402	DE-405	<u>DE-802</u>	<u>DE-1002</u>	DE-2002
Center Frequency ¹	40 MHz	40 MHz	80 MHz	100 MHz	200 MHz
Frequency Range	20 MHz	20 MHz	40 MHz	50 MHz	100 MHz
RF Output Power Capability ²	2 watts	5 watts	2 watts	2 watts	2 watts

OPTIONS: D...Inverse digital, input<0.8 volts for RF/on, input>2 volts to 5 volts for RF off, 50 Σ input impedance.

E...Low level oscillator RF output, +10 dBm level. e.g., DE-402E

H...Front panel access between modulator circuit and RF power amplifier. e.g., DE-402H

J...100 Vac line voltage for Japan. e.g., DE-402J

M...Amplitude modulation (0-1 volt for 0 to specified RF output) e.g., DE-402M

N...Front panel access between oscillator and modulator circuits. e.g., DE-402N

T...Digital input, input<0.8 volts for RF/off, input>2 volts to 5 volts for RF/on, 50 ohm input impedance.

¹ Other center frequencies and frequency ranges are available.

² Other RF output power capabilities are available.

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