

VME5T

SYNTHESIZER SPECIFICATION



WIDE FREQUENCY RANGE:
0.5 to 18 GHz

FEATURES

- 70 dB Selectivity
- 45 dB Gain Adjustment
- 1 GHz/ 140 MHz IF
- Up To 500 MHz Bandwidth

BENEFITS

- Light Weight
- Small Size
- Low Cost
- High Performance

OPTIONS

- Frequency Range: 0.05 to 26 GHz
- Fast Tune Mode: 250 usec Full Band
- IF Bandwidth: 1 MHz to 500 MHz
- IF Frequency: Selectable to 1 GHz
- Tuning Resolution: Selectable to 1 Hz
- Ethernet Interface
- GPIB Interface
- RS-232 Interface

APPLICATION

- SIGINT
- EW
- Flight Line Testers
- COMINT
- ELINT

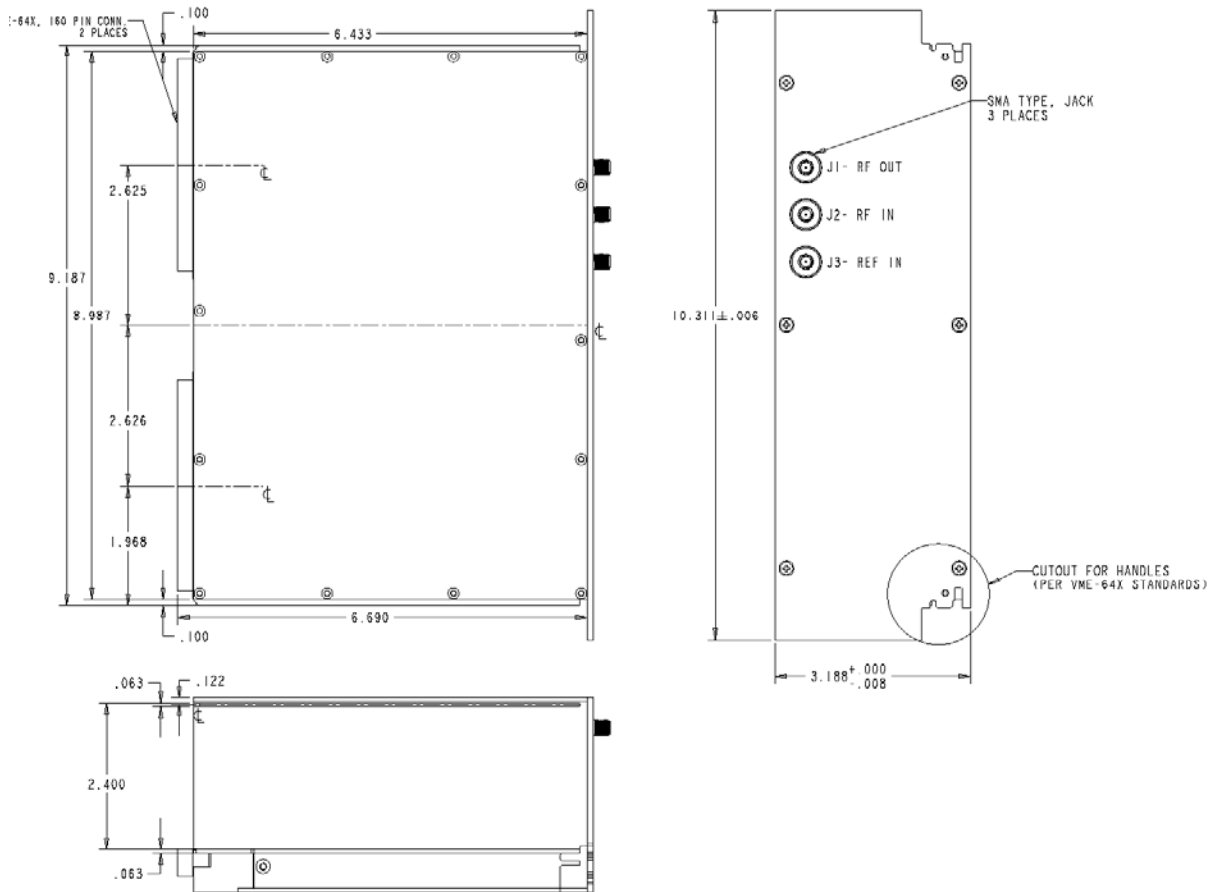
GENERAL DESCRIPTION

THE VMESG-18 SYNTHESIZER was developed as a "Synthetic Instrument" for flight line test equipment, where its small size, light weight and high performance characteristics are paramount. The modular design of this instrument allows for many performance and interface options. Elcom's VME Series synthesizers are similar in design to the IBS Series with the added benefit of an extremely compact 3-4 slot design.

SPECIFICATIONS

Tuning Accuracy:	+/- 50 KHz
Tuning Resolution:	100 KHz
Tuning Speed:	1 msec/ 500 MHz 20 msec/ Full Band
Maximum Input Power:	+20 dBm
Output level:	0 dBm Nominal
Gain:	30 dB Nominal, 45 dB Max
Noise Figure:	14 dB max
MDS:	-90 dBm
IF Frequency:	70 MHz or 140 MHz
IF Bandwidth:	20 MHz
Image Rejection:	70 dB max
External Reference:	10 MHz @ +0 dBm
Phase Noise:	-95 dBc / Hz @ 10 KHz Offset
DC Power:	+5V, +/- 12V, 50 Watts
Form Factor:	VME 3-4 Slots
Interface:	VME 64
Environmental Conditions:	
Operating Temperature:	-20° C to +60° C
Non-Operating:	-40° C to +70° C
Weight:	9 lbs

OPT100	Fast Tune Mode, 250 usec Full Band
OPT 101	IF Bandwidth, 1 MHz
OPT 102	IF Frequency, Selectable to 1 GHz
OPT 103	Tuning Resolution, Selectable to 1 Hz
OPT 104	Ethernet Interface
OPT 105	GPIB Interface
OPT 106	RS-232 Interface



VMEST Tuner Mechanical Outline

ABOUT ELCOM TECHNOLOGIES

Elcom designs and manufactures instruments and modules in the RF and Microwave frequency spectrum for broadband and narrow band applications in ATE, Aerospace/Defense, SIGINT and commercial communications. Proprietary technologies include low phase noise fast switching direct analog synthesis, low noise indirect PLL designs, and RF DSP up to 40GHz.

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