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## INSTRUCTIONS

## MODEL AV-142-M1 AMPLIPIER

S.N.:

## WARRANTY

Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech shall at its option repair or replace said defective item. This warranty does not apply to units which have been dissembled, modified or subjected to conditions exceeding the applicable specifications or ratings. This warranty is the extent of the obligation or liability assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

## BASIC SPECIFICATIONS

Model designation:
Frequency range:
Input impedance:

Gain:
Input conversion noise:
1 db comp. out:

Connectors:
Prime power:

Other:

AV-142-M1
DC to 100 MHz
100K (< $\pm 0.5 \%$ variation over frequency range of 0.8 to 8.0 MHz )
$\geqslant 26 \mathrm{db}$
$1.7 \mathrm{nV} / \sqrt{\mathrm{Hz}}$ (for $\mathrm{f} \geqslant 100 \mathrm{kHz}$ )
$\geqslant+7 \mathrm{dbm}(0.5 \mathrm{Vpp}$ at load impedance of 50 Ohms )

SMA
a) PS switch in INT position: i) +15 VDC 100 mA
b) PS switch in EXT position:
i) +15 VDC 50 mA
ii) -5 VDC 50 mA

See standard AV-142

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PS INT-EXT SWITCH
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When the PS switch is in the INT position, a self-contained 50 kHz DC to DC convertor generates -5 VDC required internally. This 50 kHz convertor may generate low level interference signals which may appear as noise at the amplifier output. If this 50 kHz interference is found to be a problem, then the PS switch should be placed in the EXT position (in which case the 50 kHz convertor does not function) and the unit then requires that +15 VDC and -5 VDC be applied as shown below.

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