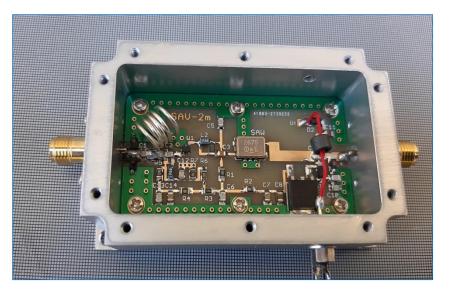
Mechanics & Electronics Inc.

EME Preamplifiers

ME-2 2m EME Preamplifier



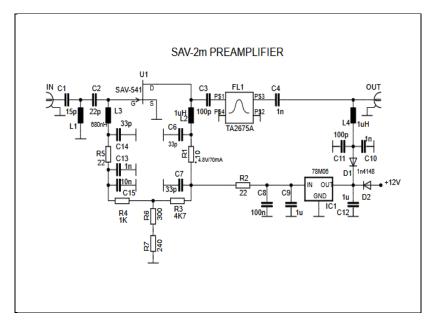
Introduction

The ME-2 2m EME Preamplifier high dynamics, selective and low-noise preamplifier for 144MHz.

We offer it for EME operation. The built in SAW filter gives clean signal and selectivity.

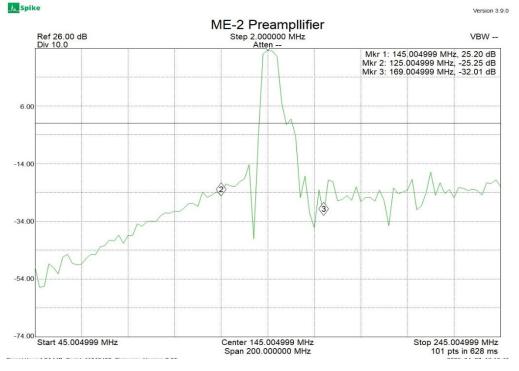
The preamplifier built in a stable ALU box furnised with SMA female connectors. The small dimension is optimal to use it near of your antennas in separate box.

| Technical data | ME-2 | | |
|---------------------|---------------------|--|--|
| Frequency range: | 144-148MHz | | |
| Noise figure @ 22°C | Typ < 0.23 dB | | |
| Noise figure @ -18C | Typ < 0.13 dB | | |
| Gain S21, typ.: | 25 dB | | |
| Input return loss | >+7.78 dB | | |
| Output return loss | >+22.3 dB | | |
| OIP3: | >+28dBm | | |
| IIP3: | Typ. + 3dBm | | |
| Device: | SAV-541 | | |
| Max. Input level: | +19dBm | | |
| Operating voltage: | +10+15V | | |
| Power consumption: | 68mA | | |
| Dimensions: | 85x50x20mm (w.conn) | | |
| Weight: | 75g | | |
| RF connectors: | 2x SMA female | | |

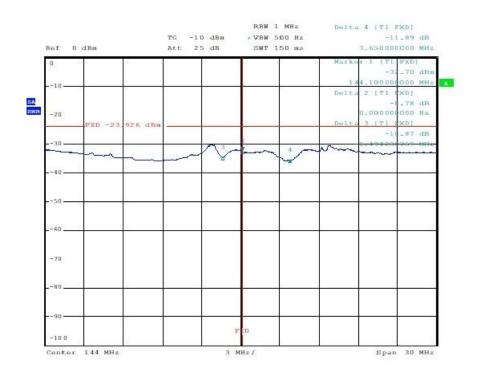




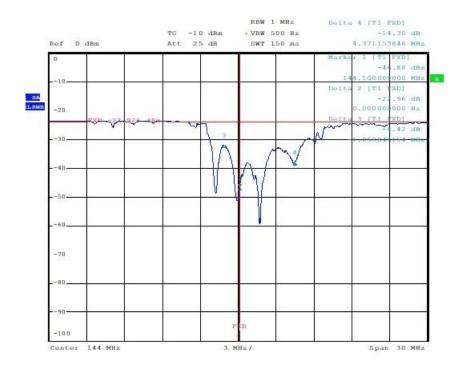
| Direct | | | E & GAIN | | CALIBRATED |
|----------|------------|----------------|----------------|-----------------|------------|
| RBW: | 1 MHz | RF Atten. | 0 dB | 2nd Stage Corr. | On |
| Average: | 1 | Auto Ref Level | On | Image Rejection | |
| | | Cu | rent Value | | |
| RF: | 144 MHz | ENR | 6.4 dB | NF. | 0.22 dB |
| LO: | | Loss In | 0 dB | Noise Temp. | 14.8 K |
| IF: | | Loss Out | 0 dB | Gain | 25.34 dB |
| | | Frequenc | y List Results | ; | |
| | RF | NF | No | ise Temp | Gain |
| | 144.00 MHz | 0.22 | dB | 14.80 K | 25.34 dB |
| | 144.50 MHz | 0.24 | dB | 16.30 K | 26.19 dB |
| | 145.00 MHz | 0.16 | dB | 11.20 K | 26.24 dB |
| | 145.50 MHz | 0.21 | dB | 14.06 K | 25.86 dB |
| | 146.00 MHz | 0.19 | dB | 12.80 K | 26.02 dB |
| | 146.50 MHz | 0.23 | | 16.09 K | 25.83 dB |
| | 147.00 MHz | 0.21 | | 14.16 K | 25.81 dE |
| | 147.50 MHz | 0.19 | | 12.72 K | 25.09 dB |
| | 148.00 MHz | 0.23 | dB | 16.01 K | 24.98 dB |
| | | | | | |
| | | | | | |
| | | ME-2 NF Mea | uromonts | ໑ ຉຉ ⁰ຬ | |



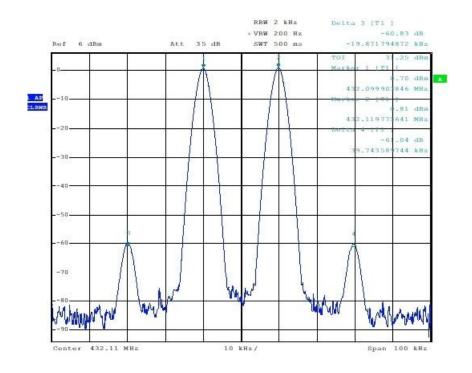
ME-2 200MHz BW.



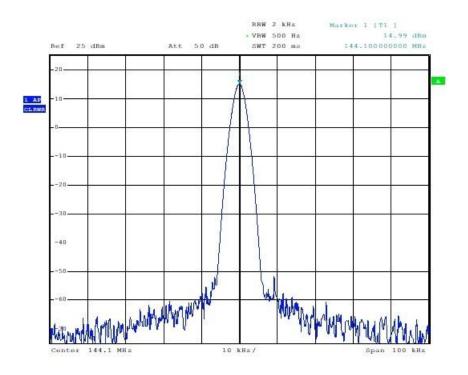
ME-2 Input Return Loss.







OIP3 +28dBm



1 dB Compression point.