

RF TTFSS Preamplifier

DCC:  E1700248

Description

This RF preamplifier for the squeezer TTFSS is a 2U 3/4-width rack mount unit which takes a <-6 dBm input and provides a direct output as well as two amplified outputs and a monitor. The direct output has a loss of 1 dB, the amplified outputs are amplified by 10 dB, and the monitor output is down by -6dB. There is no controls interface. The unit requires +16.5V.

Specifications

DCC:  E1700250-v1

Frequency range:

- 1 MHz to 1 GHz (direct)
- 1 MHz to 500 MHz (amplified)

Input:

- smaller than -5 dBm
- N female

Output (direct):

- 1 dB loss nominal
- 1x N female

Output (amplified):

- 10 dB gain nominal
- 2x N female

Monitor (of amplified output):

- -6 dB gain nominal
- 1x N female

Phase figure (all outputs):

- 4 dB (direct)
- 15 dB (amplified)

Harmonics:

- < -30 dBc

Phase noise (amplified outputs at 80 MHz):

Frequency	Phase noise spec
10 Hz	-75 dBc/Hz
100 Hz	-95 dBc/Hz
1 kHz	-125 dBc/Hz
10 kHz	-140 dBc/Hz

Amplitude noise (amplified outputs):

Frequency	AM noise spec
10 Hz	-140 dBc/Hz
100 Hz	-140 dBc/Hz
1 kHz	-140 dBc/Hz
10 kHz	-140 dBc/Hz