

EOM RF Amplifier Plan

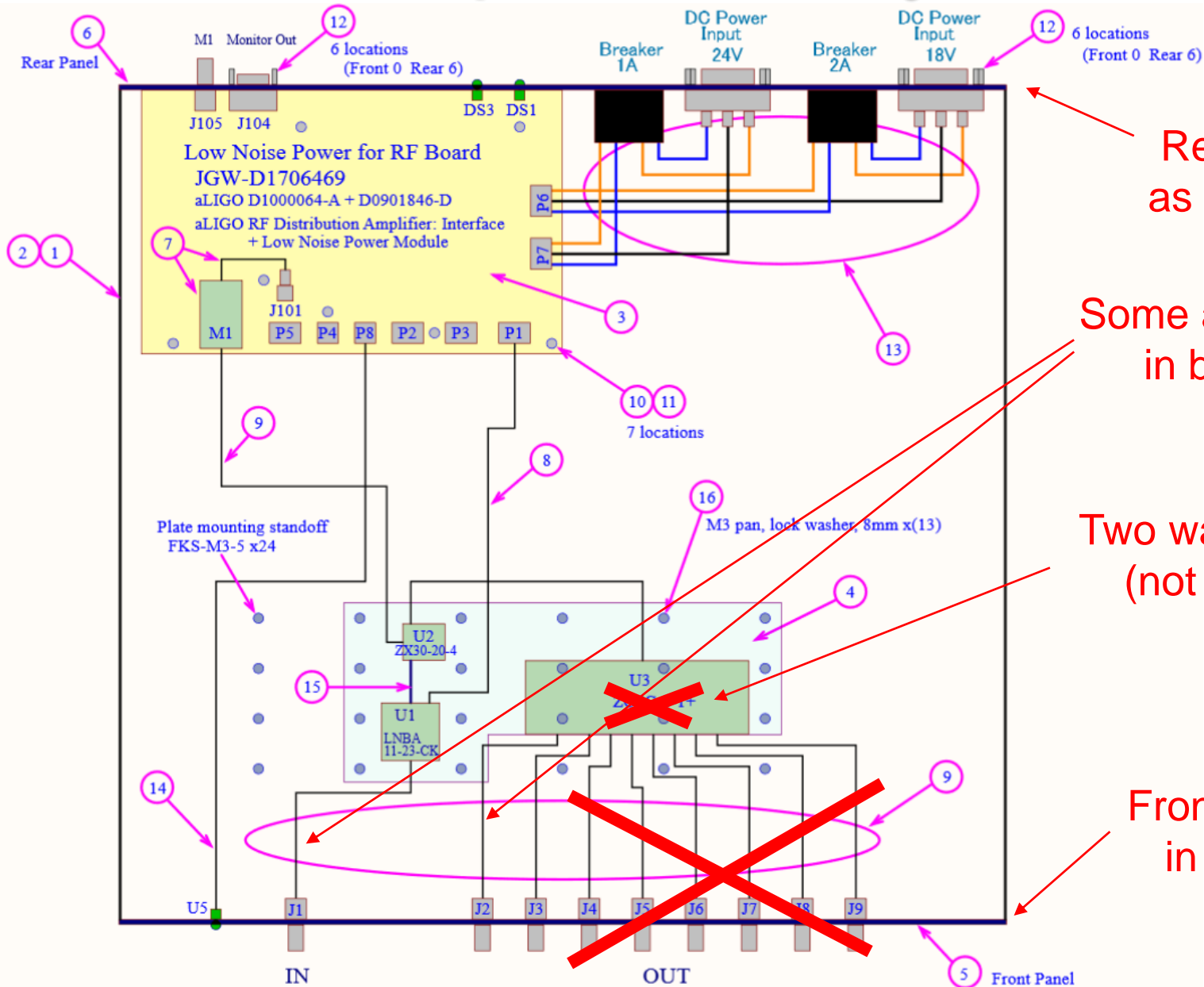
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Summary

- RF Amplifier for driving EOM
- Basically same as RF Distribution Amplifier ([JGW-D1706462](#))
 - But 2-way splitter instead of 8-way
 - Include some attenuators to tune modulation depth (could be voltage controlled one)
 - Might include some bandpass filters
 - Different front panel, same rear panel
- Make at least 3 chassis for f1, f2, f3
 - f1: 16.881 MHz (split into two)
 - f2: 45.016 MHz (no split)
 - f3: 56.270 MHz (split into two)
- RF parts will be prepared and assembled by MIF/IOO

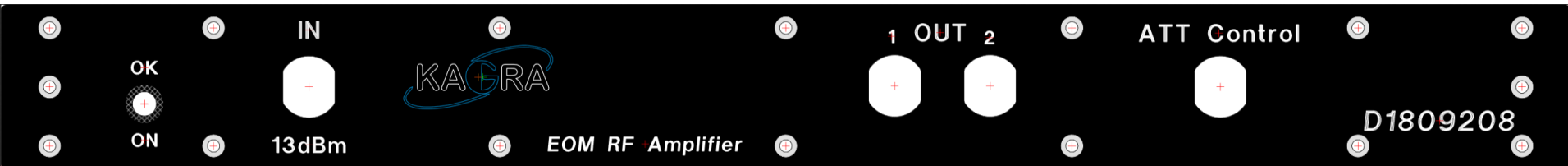
Top Assembly Plan

[JGW-D1706462](#)



Front Panel

- Design available at [JGW-D1809208](https://www.jgwdesign.com/JGW-D1809208)



RF input (N)

Two RF outputs (N)

Voltage input for
voltage controlled attenuator
(BNC)

- Rear panel same as [JGW-D1706468](https://www.jgwdesign.com/JGW-D1706468)

Parts Prepared by MIF/IOO

- U1: RF amplifier [Wenzel LNBA-11-23-CK-100-15](#)
- U2: RF coupler [Mini Circuits ZX30-20-4](#)
- U3: two-way RF splitter [Mini Circuits ZFSC-2-1-S+](#)

- RF attenuators ([Mini Circuits VAT-1+](#) etc)
- Voltage controlled RF attenuators ([Teledyne GC2510](#) ?)
- Bandpass filters (TBD)

- **TO BE DISCUSSED**
 - Mounting plate? (like [JGW-D1706464](#))
 - Connectors and cables?

Variations (TBD)

- f1: 16.880962 MHz
in -> attenuator -> amplifier -> splitter -> attenuator -> out
-> out
- f2: 45.015898 MHz
in -> attenuator -> amplifier -> out
- f3: 56.269873 MHz
in -> attenuator -> splitter -> amplifier -> attenuator -> out
-> amplifier -> attenuator -> out