**Description**

This pyramid is for a retrofitted Antonio feed. It includes arms, LNAs, and a temperature diode.

**Pyramid Status**

|  |  |
| --- | --- |
| Document last update | 2021-06-28 |
| Pyramid S.N. | 019 |
| Last worked on | Initial Retrofit 2021 |
| Feed Base (previous/current) | 5C4-015-A |
| Original build date | 2016-03-01 |
| Number of cooldown cycles | 3 (2017-06-14) |
|  |  |

**LNA Summary**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| X Pole LNF LNA | MMIC | | Room temp Biasing | | | Cryo temp Biasing |
| S.N. C-0034A | Chalmers | | Vds= 2.10V  Ids= 90mA  Vgs= -0.31V  Vm= -1.20V  Im= -51.5mA | | | Vds= 1.20V  Ids= 25mA  Vgs= NA  Vm= -0.50V  Im= -17mA |
|  | |  | |  |
| Y Pole LNF LNA | MMIC | | Room temp Biasing | | | Cryo temp Biasing |
| S.N. C-0046A | Chalmers | | Vds= 2.10V  Ids= 90mA  Vgs= -0.91V  Vm= -1.20V  Im= -55.0mA | | | Vds= 1.20V  Ids= 25mA  Vgs= NA  Vm= -0.50V  Im= -17mA |

**Retrofits**

|  |  |
| --- | --- |
| Tip-Link: R03 | X |
| Gold Plated | X |
| Preconditioned Coax | X |