5C4-005-A Cooled Feed Test Report

2015-10-29

Installed at HCRO 2015-10-23, Antenna 2A

MINEX SUMMARY

Model 30-29-200-B 5C4 Chassis, Borosilicate Glass, Low Vibration Cryo Mount,

Capacitor Board and Beryllium Copper Traces

<u>Vacuum</u> Very Good Running in intermittent mode around 13watts (data recorded)

<u>Cryo</u> Very Good Cooldown to ColdHd 65K / LNA 73K, 221watts (data recorded)

<u>X-pole</u> Very Good Noise (5.0 - 4.5dB out to 14GHz) <u>Y-pole</u> Good Noise (4.75 – 3.5dB out to 14GHz)

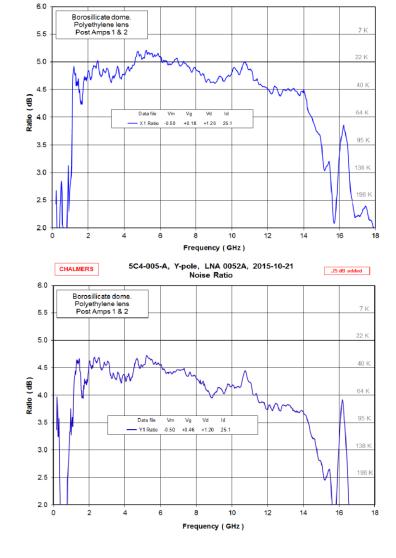
RECOMMENDED BIAS SETTINGS

CHALMERS

Vm + Vd must be set exactly to values below Adjust Vg as needed to get Id 25.1 to 25.3

Pole	Minex LNA S.N.	Bias at Minex	PAM's (HC default)
Х	C-0047a	Vm50v / Vg .18v / Vd 1.20v / ld 25.1ma	15.0 / 15.0
Υ	C-0052a	Vm50v / Vg .46v / Vd 1.20v / ld 25.1ma	

.25 dB added



5C4-005-A, X-pole, LNA 0047A, 2015-10-21

Noise Ratio