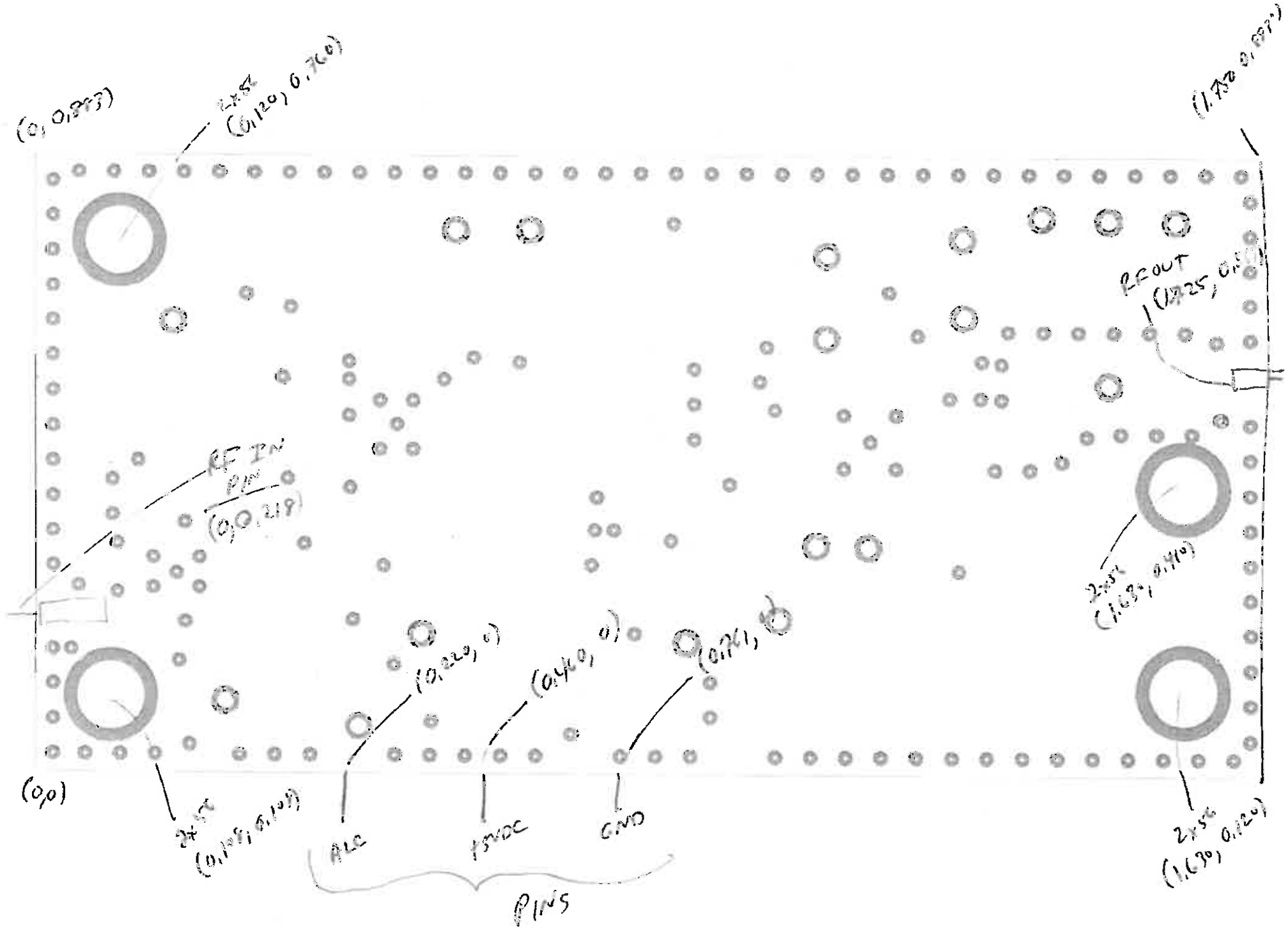
SPECIFICATIONS FOR S-BAND (2-2.4GHZ), SOLID STATE POWER AMPLIFIER (SSPA)

MSFC is requesting information for the fabrication of an S-Band (2-2.4GHz), 2-W Solid State Power Amplifier (SSPA) with the following specifications and footprint.

* Input power – 0dBm
* Output Power - +33dBm preferred, +30dBm minimum.
* Input voltage – 5VDC
* Voltage variable (analog) ALC – 0-5VDC (0 = no attenuation, 5VDC =- max attenuation).
* With the enclosed form-factor
* Must deliver 3 units within 60 days of Authority to Proceed (ATP)
* Shall be able to fit in a footprint that is LxWxH (1.75"x 0.883"x 0.5")
* Overall Height: Not to exceed (NTE): 0.500"
* Height above external power/RF connections NTE: 0.250"
* Operating temp: -40 to +85C at 100% duty cycle.



(0, 0.883)
2x56
(0.120, 0.760)
(1.750, 0.883)
RF OUT
RF IN
PIN
(0, 0.218)
2x56
(1.630, 0.410)
(0.220, 0)
(0.460, 0)
(0.761, 0)
(0,0)
2x56
(0.108, 0.108)
ALC
+5VDC
GND
PINS
2x56
(1.630, 0.120)