Tune Up Procedure

GMSG01 requires no Frequency tunes. The crystal is a TCXO qualified in operating range at time of manufacture.

Power levels are set as below.

2.3.2 Power

The output power shall have two settings selectable by a discrete input to the board, (sampled during power-up), or by command via the serial port.
A jumper shall be included on the board to indicate the source of the control.
If the jumper setting corresponds to the discrete input control, the discrete input PWR_LVL is sampled during power up to indicate the output power level.

Discrete Control Setting (Sampled at power-up)	Power Setting
Open	Low
Ground	High

If the jumper setting corresponds to a serial control, the power level is set according to a value set in the EEPROM. Serial port commands (See **Error! Reference source not found.**) can modify this EEPROM value.

The output power on a 50 ohms load after the power amplifier shall be according to Table 1, Output Power

Discrete Control Setting	Avg Power (During 1.28 s)
High	22dBm +/- 2 dB
Low	18 dBm +/- 2 dB

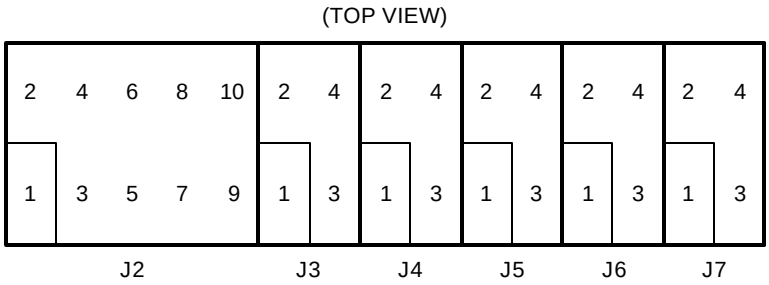
Table 1, Output Power

The power tolerances shall include the temperature and voltage variations as well as the manufacturing tolerances.
The power measurement shall be made in a 5 MHz bandwidth centered on the carrier frequency.
Closed loop power control should not be required.

I/O Connector and Power/Ground connectors may be combined.

9.1 I/O & Power Connector

Description	RS232 connection for control and test Discrete control pins for test I/O Pins Power pins
Connector	TBD
Mating Connector	TBD



J2-1 POWER IN
J2-2 POWER IN
J2-3 GROUND
J2-4 GROUND
J2-5 DIGITAL INPUT 1
J2-6 DIGITAL INPUT 2
J2-7 SERIAL TX (INPUT)
J2-8 RTS (INPUT)
J2-9 SERIAL RX (OUTPUT)
J2-10 CTS (OUTPUT)

J3-1 NO PIN
J3-2 NO PIN
J3-3 NO PIN
J3-4 NO PIN

J4-1 TEST INPUT 1
J4-2 TEST INPUT 2
J4-3 VDIG (ICP - NOT INSTALLED IN PRODUCTION)
J4-4 uC RESET (ICP - NOT INSTALLED IN PRODUCTION)

J5-1 NO PIN
J5-2 NO PIN
J5-3 NO PIN
J5-4 NO PIN

J6-1 POWER LEVEL
J6-2 GROUND
J6-3 POWER LEVEL OVERRIDE
J6-4 GROUND

J7-1 RTC EXTERNAL POWER IN
J7-2 GROUND
J7-3 LED POWER
J7-4 LED CONTROL

Notes:

- LED_GND may be connected to board ground.
- The cable length between the I/O connector and the DTE will not exceed 20 cm
- Unused pins of the connector will be left unconnected

Note:

- The OEM integrator will keep the power cable length to less than 20 cm with a minimum gauge wire gauge of 20 AWG