

TUNING PROCEDURE

FOR PA3-1XC

Step	Adjust	Function	Instructions
1	VR1	Bias Adjustment	Short Test Points TP1 & TP2, adjust VR1 to obtain $I_{dq1}=1.0$ A.
2	C20	Input impedance matching.	Tune for minimum VSWR.
3	C22	Output impedance matching.	Tune for maximum output power and amplifier stability.
4		Optimization.	Repeat steps 1 and 2 for minimum VSWR, maximum power and maximum efficiency.
5		Frequency Spectrum.	Observe an amplified signal and a frequency spectrum on a spectrum analyzer at all times for any sign of oscillation, spurious emission or high harmonics.