**Product Description**

**300W HF AMP COMPONENT SET**

This amplifier design covers frequencies from HF to VHF with a power output level of 300 watts using RF power MOSFETs. The MRF141G used in this design is considered as a state of the art device. The MRF141G is housed in a special push-pull header commonly known as "Gemini" (twins) meaning that there are two identical transistors mounted next to each other on a common carrier or flange. The frequency range of this amplifier design is 10-150 MHz. This amplifier was originally designed for operation from a 12 to 28 volt power supply. As the MRF141G is basically made for operation from a 28 volt supply, lowering the voltage down 20 volts or lower would make the unit almost indestructable against load mismatches such as open coax or a broken antenna.

**Specifications:**

Frequency Range                                        10-150 MHz

Power Input                                               15 watts (typical)

Power Output                                             300 watts (typical)

Input Impedance                                        50 ohms

Output Impedance                                      50 ohms

Input Voltage                                             12 - 28 volts DC

Input Current                                             22 amps (typical)

**The component set includes:**

1 ea.   Capacitor Set

1 ea.   Resistor Set

1 ea.   Ferrite Set

1 ea.   Transformer Set

1 ea.   Printed Circuit Board

1 ea.   1N5923A  8.2V Zener Diode

1 ea.   MRF141G FET