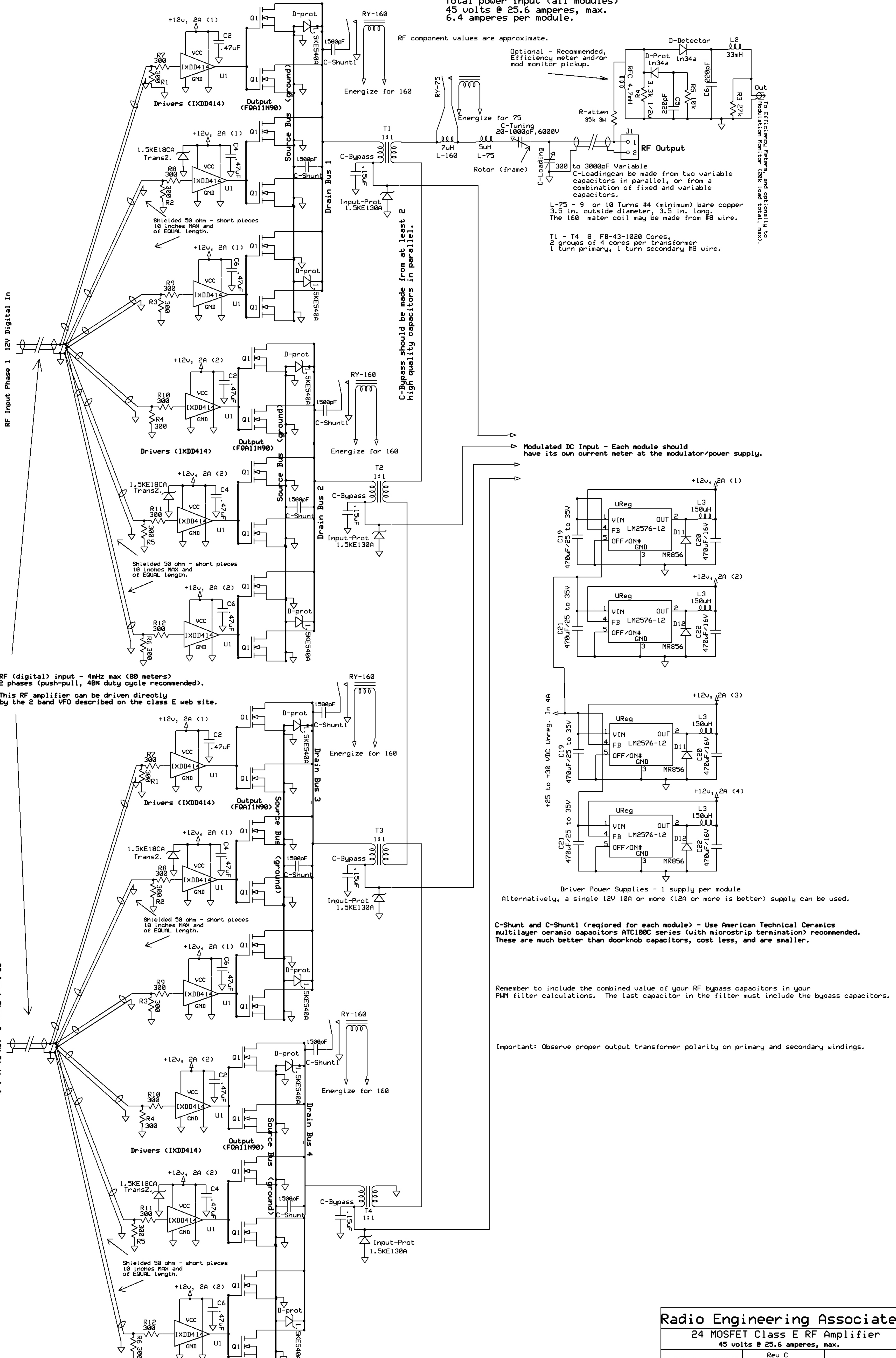


**1152 Watt DC input (at carrier) (1000W. output typical)  
4 module, 24 MOSFET, 80/160 Meter Class E RF Amplifier (with driver)**

Total power input (all modules)  
45 volts @ 25.6 amperes, max.  
6.4 amperes per module.

RF component values are approximate.

Optional - Recommended,  
Efficiency meter and/or  
mod monitor pickup.



Shielded 50 ohm - short pieces  
18 inches MAX and  
of EQUAL length.

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C-Bypass should be made from at least 2  
high quality capacitors in parallel.

L-75 - 9 or 10 Turns #4 (minimum) bare copper  
3.5 in. outside diameter, 3.5 in. long.  
The 160 meter coil may be made from #8 wire.

T1 - T4 8 FB-43-1020 Cores,  
2 groups of 4 cores per transformer  
1 turn primary, 1 turn secondary #8 wire.

To Efficiency Meter, and optional to  
Modulation Monitor (200 load coil, max).

RF (digital) input - 4MHz max (80 meters)  
2 phases (push-pull, 40% duty cycle recommended).  
This RF amplifier can be driven directly  
by the 2 band VFD described on the class E web site.

Modulated DC Input - Each module should  
have its own current meter at the modulator/power supply.

Driver Power Supplies - 1 supply per module  
Alternatively, a single 12V 10A or more (12A or more is better) supply can be used.

C-Shunt and C-Shunt1 (required for each module) - Use American Technical Ceramics  
multilayer ceramic capacitors ATC100C series (with microstrip termination) recommended.  
These are much better than doorknob capacitors, cost less, and are smaller.

Remember to include the combined value of your RF bypass capacitors in your  
PWM filter calculations. The last capacitor in the filter must include the bypass capacitors.

Important: Observe proper output transformer polarity on primary and secondary windings.