

# Pulse Systems, Inc.

## Pulse Systems Model Number TR-1077 S-Band Solid State Transmitter



### Transmitter Specifications

Magnetron: S-Band VMS-1197  
Frequency: 2.7-2.9 GHz  
Duty: .001  
Magnetron Input: 36KV, 50 Amps  
Peak Power: 850 KW

#### Pulse Widths (Measured at -3db of the RF pulse):

A: 0.5  $\mu$ sec  
B: 0.8  $\mu$ sec  
C: 1.0  $\mu$ sec  
D: 2.0  $\mu$ sec  
Rise time: 60 nsec  
Fall time: 150 nsec  
Pulse Jitter: 5 nsec Max.



# *Pulse Systems, Inc.*

## Output Requirements:

Stability: 0.1 dB, Pulse to Pulse  
Spectrum: 12 dB, down on side bands

## Modulator Output:

Output Voltage Pulse Adjustable Between 0 to -38 KV Pulse  
Filament Voltage: -9.0 VDC at 24 ADC  
Input Trigger: 5.0 VPK 2.0  $\mu$ sec

## Environmental Specifications

Altitude: 10,000 feet  
Ambient Temperature: -40° C TO +50° C  
Humidity: 95%  
Cooling: Internal, Forced Air

