

# Pulse Systems, Inc.

## Pulse Systems Model Number TR-1079 RF Source



### RF Source Specifications

Magnetron: S-Band VMS-1178  
Frequency: 3.1-3.5 GHz  
Duty: .001  
Magnetron Input: 36KV, 50 Amps  
Peak Power: 1.0 MW

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

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

### 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: 60 VRMS +5% -0 @ 3.5A RMS  
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

