

4. Particulars of Operation

Frequency	Power			Emission	Modulating Signal	Bandwidth
A	B	C	D	E	F	G
1030 MHz	2500W PEP	2500W PEP	PEAK	6M00M1D	pulse duration 0.8us; repetition rate 300-1200 pps	6.00 MHz; measured
1030 MHz	2500W PEP	2500W PEP	PEAK	7M50M1D	pulse duration 0.5us; repetition rate 1800-7200 pps	7.50 MHz; measured
1090MHz	500W PEP	500W PEP	PEAK	7M00M1D	pulse duration 0.45us; repetition rate 900pps-18kpps pps	7.00 MHz; measured
1090MHz	500W PEP	500W PEP	PEAK	6M90M1D	pulse duration 0.5 - 1.0 us; repetition rate 1.7-7 kpps	6.90 MHz; measured

REMARKS:

1. 6M00M1D is for SIF Modes 1, 2, 3/A, C, and Mode 4 interrogations (0.8 us pulsewidth).
7M50M1D is for Mode 4 interrogations (0.5 us pulsewidth).
2. SIF maximum mode rate of 1200 pps sets the maximum interrogations per second at 400.
The Mode 4 maximum rate of 7200 pps allows up to 200 interrogations per second.
3. 3.6 Kpps is max pulse rate for IFF Mode 4.
7.0 pps is max pulse rate for IFF Mode S.
18 Kpps is max pulse rate for IFF Modes 1, 2, 3/A, C.
4. 7M00M1D is for SIF Modes 1, 2, 3/A, C, and Mode 4 replies.
6M90M1D is for Mode S replies.