



# VARACTOR -TUNED GUNN OSCILLATOR

## DATA SHEET

CUSTOMER: FJFI CZECH TECHNICAL UNIVERSITY S/O# 12845-0001

MODEL # QTV-7519RE S/N 12845001001

SPECIFICATIONS			MEASURED DATA		
CENTER FREQUENCY	<u>Between 70-75</u>	GHz	<u>70</u> GHz		
MINIMUM POWER OUTPUT	<u>19</u>	dBm	<u>19</u> dBm		
REGULATOR BIAS VOLTAGE	<u>Include</u> VDC @ <u>-</u> mA	mA	<u>15</u> VDC @ <u>225</u> mA		
GUNN BIAS VOLTAGE	<u>-</u> VDC @ <u>-</u> mA	mA	<u>10</u> VDC @ <u>210</u> mA		
VARACTOR TUNING RANGE	<u>+/- .050</u>	GHz	<u>+/- .050</u> GHz		
VARACTOR TUNING VOLTAGE	<u>-</u>	VDC	<u>0 TO 20</u> VDC		
WAVEGUIDE SIZE	<u>WR- 12</u>	<u>UG- 387</u>			

PERFORMANCE DATA		
VARACTOR VOLTAGE (VDC)	FREQUENCY (GHz)	POWER OUTPUT (dBm)
0	69.415	19.4
2	69.555	19.6
4	69.717	19.6
6	69.870	19.6
8	70.015	19.6
10	70.147	19.5
12	70.273	19.4
14	70.385	19.3
16	70.485	19.2
18	70.585	19.1
20	70.668	19.1

**NOTES:**

- 1- SEE HOOK-UP SCHEMATIC ON NEXT PAGE.
- 2- ALLOW 10-15 MINUTES WARM-UP TIME.

TEST TECH: YT

DATE: 4/21/10

QUALITY: \_\_\_\_\_

DATE: \_\_\_\_\_