

July 2001

# DATA SHEET



Radiometer  
Physics

RPG-600-2  
RPM-600-2  
S/N 2001-008-11

## Local Oscillator

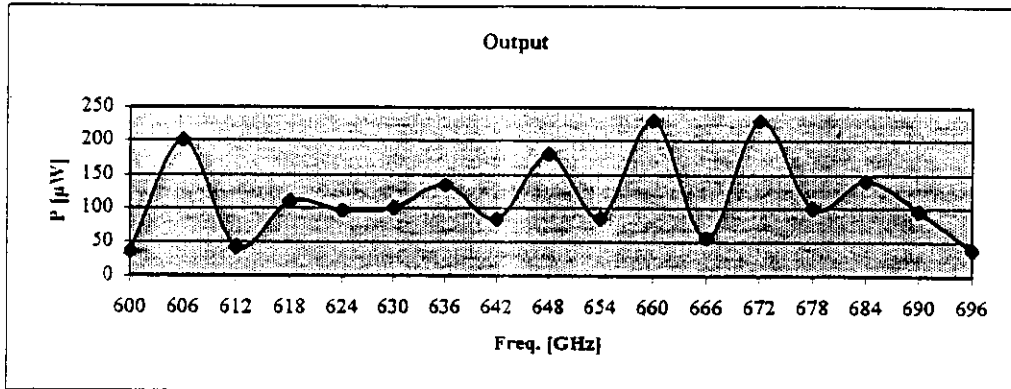
600-696 GHz

$$U^{GUNN}=10.4V$$

RPG-600-2

RPM-600-2

OUTPUT		GUNN		DOUBLER	TRIPLER
Freq.	P	Micrometer		Micrometer	Micrometer
[GHz]	[ $\mu W$ ]	F	B	1	2
600	35	0,65	0,43	1,79	0,91
606	200	0,81	0,38	1,63	0,92
612	42	0,96	0,31	1,72	0,88
618	110	1,13	2,32	1,47	0,87
624	96	1,23	2,25	1,59	0,84
630	100	1,34	2,14	1,39	0,84
636	135	1,44	1,98	1,47	0,82
642	84	1,51	1,98	1,34	0,81
648	180	1,59	1,79	1,33	0,80
654	85	1,64	1,63	0,34	0,78
660	230	1,72	1,74	0,57	0,34
666	56	1,78	1,36	0,81	0,33
672	230	1,85	1,50	1,22	0,32
678	100	1,92	1,34	0,90	0,31
684	140	2,01	1,40	1,11	0,30
690	95	2,10	1,22	0,94	0,29
696	38	2,28	1,22	1,10	0,28



For diagnostic purposes: Diode D.C. characteristics

	I [ $\mu A$ ]	-10	-100	-1000	-3000
Doubler:	U [V]	-0,58	-0,65	-0,72	-0,76
Tripler:	U [V]	-0,78	-0,85	-0,93	-0,97

The doubler and tripler are operated without external biasing.

The doubler has a 10 k $\Omega$  self-bias resistor (plus a 6.2 V Zener diode to avoid excessive pump-voltages) connected to its SMA-port.

The tripler has a self-bias resistor of 10 k $\Omega$  (plus a 4.3 V Zener diode) connected to its SMA-port.