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MODEL NO. MEC 5337 (GR)

DUAL-BAND

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS			
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX	
HEATER	-6 Vdc	1.62 A	-5.8 Vdc	-6.6 Vdc	2 A	
HELIX	W/ RF	GROUND	GROUND		10 mA	
	W/O RF					
GRID ON	200 Vdc	1 mA	125 Vdc	250 Vdc	5 mA	
GRID OFF	-250 Vdc	0.1 mA	-250 Vdc	-500 Vdc	1 mA	
CATHODE (Ek)	-10.5 kV	300 mA	-10 kV	-10.8 kV	310 mA	
COLLECTOR W/ RF	#1	5.88 kV	60 mA	56% x Ek ±2%		150 mA
	#2	4.2 kV	235 mA	40% x Ek ±2%		310 mA

RF PERFORMANCE			
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN SPEC POWER OUTPUT (WATTS)	TYP GAIN AT SPEC POWER dB
5.850	375	350 *	38
6.150	375	350	38
6.650	375	350	38
X			
13.750	420	400 **	52
14.000	420	400	52
14.250	420	400	52
14.500	420	400	52

NOTE 1: CATHODE VOLTAGE IS MEASURED WITH RESPECT TO GROUND.
 NOTE 2: HEATER, COLLECTOR, GRID OR FOCUS ELECTRODE (FE) VOLTAGES ARE MEASURED WITH RESPECT TO CATHODE.

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.
 GAIN IS WITH EQUALIZER.

SELECTED PERFORMANCE	TYPICAL	SPECIFIED
INPUT VSWR	1.8:1	2:1
OUTPUT VSWR	2.3:1	2.5:1
MAXIMUM DUTY	—	CW
GRID CAPACITANCE	37 pF	50 pF
MIN HARMONIC SEPARATION	-5/-20 dBc	-3*/-15** dBc
NOISE POWER DENSITY	-12 dBm/MHz	-10 dBm/MHz
PRIME POWER	1412 W	1450 W
TEMPERATURE RANGE	-40° to 85°C	—

SPECTRAL REGROWTH:

FREQUENCY	MINIMUM LINEAR POWER	MODULATION	LEVEL@1 SYMBOL RATE.
5.85 GHz	225W	QPSK	-26dBc
6.425 GHz	225W	QPSK	-26dBc
13.75 GHz	125W	QPSK	-26dBc
14.5 GHz	125W	QPSK	-26dBc

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