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MODEL NO. MEC 5466

17.3 to 18.4 GHz

TYPICAL OPERATING CONDITIONS			POWER SUPPLY REQUIREMENTS		
ELEMENT	VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX
HEATER	-6.1 Vdc	1.7 A	-5.8 Vdc	-6.6 Vdc	2 A
HELIX	W/ RF	GROUND	GROUND		10 mA
	W/O RF				
		1 mA			
FE ON	-10 Vdc	0.1 mA	0	-50 Vdc	3 mA
FE OFF	-1600 Vdc	0.1 mA	-1600 Vdc	-2000 Vdc	1 mA
CATHODE (Ek)	-11.8 kV	385 mA	-11.5 kV	-12.5 kV	400 mA
COLLECTOR W/ RF	#1	5.81 kV	110 mA	49% x Ek ±2%	250 mA
	#2	3.20 kV	270 mA	27% x Ek ±2%	375 mA

RF PERFORMANCE			
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN SPEC POWER OUTPUT (WATTS)	TYP GAIN AT SPEC POWER dB
17.3	550	500 *	47
17.4	550	500	47
17.5	550	500	47
17.6	550	500	47
17.7	540	500	47
17.8	530	500	47
17.9	525	500	47
18.0	500	450	46
18.1	490	450	46
18.2	480	450	46
18.3	460	450	45
18.4	450	450	45

NOTE 1: CATHODE VOLTAGE IS MEASURED WITH RESPECT TO GROUND.

NOTE 2: HEATER, COLLECTOR AND FOCUS ELECTRODE (FE) VOLTAGES ARE MEASURED WITH RESPECT TO CATHODE.

SELECTED PERFORMANCE	TYPICAL	SPECIFIED
INPUT VSWR	1.75:1	2.25:1
OUTPUT VSWR	1.92:1	2.3:1
MAXIMUM DUTY	—	CW
FE CAPACITANCE	50 pF	65 pF
MIN HARMONIC SEPARATION	-30 dBc	-15 dBc *
NOISE POWER DENSITY	-20 dBm/MHz	-15 dBm/MHz
PRIME POWER	1555 W	1600 W
TEMPERATURE RANGE	-40° to 85 °C	—

TYPICAL POWER OUTPUT IS SHOWN TO ILLUSTRATE CAPABILITY.

GAIN IS W/O EQUALIZER.

An ISO 9001:2000 Quality System
 Certified Company

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