****TELEDYNE MEC**

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MODEL NO. MTG 5130

5.0 to 11.0 GHz

TYPIC	CAL C)PEI	RATING CC	POWER SUPPLY REQUIREMENTS			
ELEMENT		VOLTAGE	CURRENT	VOLTAGE MIN	VOLTAGE MAX	CURRENT MAX	
HEATER		-6.3 Vdc	1.7 A	-6.1 Vdc	-6.5 Vdc	2.7 A	
HELIX -	W/RF		- GROUND	25 mA	GROUND		30 mA
	W/O RF			6 mA			
FE ON		-3 Vdc	0	0	-50 Vdc	0.1 mA	
FE OFF		-1200 Vdc	0	-1200 Vdc	-1500 Vdc	1 mA	
CATHODE		-9.05 kV	430 mA	-8.5 kV	-9.3 kV	475 mA	
COLLEG	-	#1	4.7 kV	105 mA	52% X	Ek ±2%	250 mA
W/ F		#2	3.08 kV	300 mA	34% X	Ek ±2%	450 mA

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	2:1	2.5:1
OUTPUT VSWR	1.8:1	2.5:1
MAXIMUM DUTY		CW
FE CAPACITANCE	40 pF	50 pF
MIN HARMONIC SEPARATION	-6 dBc	-4 dBc *
NOISE POWER DENSITY	-20 dBm/MHz	-18 dBm/MHz
PRIME POWER	1655 W	2000 W
TEMPERATURE RANGE	-40° to 85 °C	

RF PERFORMANCE							
FREQ GHz	TYP SAT POWER OUTPUT (WATTS)	MIN SPEC POWER OUTPUT (WATTS)	TYP GAIN AT SPEC POWER dB				
5.0	400	300	56				
5.5	450	350	56				
6.0	415	400 *	53				
6.5	500	450	56				
7.0	589	500	57				
7.5	589	500	56				
8.0	646	500	55				
8.5	646	500	54				
9.0	617	500	51				
9.5	537	500	47				
10.0	550	500	45				
10.5	550	400	45				
11.0	450	400	40				

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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