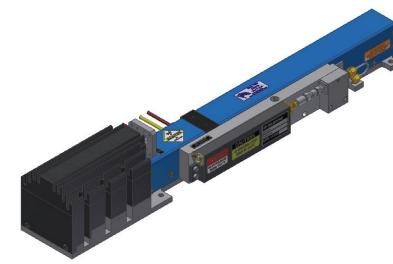
MEC 5409/MEC 5410 Continuous Wave TWT

6.5 GHz - 18.0 GHz

- 200 W Minimum Power
- 6.5 to 18.0 GHz
- -40° to 85° C
- 1095 W Typ. Prime Power
- 35-48 dB Typical Gain
- 19.8" L x 3.47" W x 3.4" H (50.3 x 8.8 x 8.64 cm)
- ±20° Phase Match

5409 – Grid 5410 – Focus Electrode (FE)



Typical Operating Conditions		Power Supply Requirements		
Voltage	Current	Voltage Min.	Voltage Max.	Current Max.
-6.3 Vdc	1.6 A	-6.0 Vdc	-6.6 Vdc	2 A
Ground	7 mA	Ground	Ground	15 mA
Ground	1 mA	Ground	Ground	15 mA
-50 Vdc	0.1 mA	0	-75 Vdc	1 mA
-1300 Vdc	0.1 mA	-1500 Vdc	-1700 Vdc	1 mA
180 Vdc	1 mA	125 Vdc	250 Vdc	10 mA
-200 Vdc	0.1 mA	-200 Vdc	-500 Vdc	1 mA
-10.3 kV	260 mA	-10 kV	-10.5 kV	280 mA
5.36 kV	45 mA	52% x E	к ±2%	100 mA
3.71 kV	208 mA	36% x E	k ±2%	280 mA
	Voltage -6.3 Vdc Ground -50 Vdc -1300 Vdc 180 Vdc -200 Vdc -10.3 kV 5.36 kV	Voltage Current -6.3 Vdc 1.6 A Ground 7 mA Ground 1 mA -50 Vdc 0.1 mA -1300 Vdc 0.1 mA 180 Vdc 1 mA -200 Vdc 0.1 mA -10.3 kV 260 mA 5.36 kV 45 mA	Voltage Current Voltage Min. -6.3 Vdc 1.6 A -6.0 Vdc Ground 7 mA Ground Ground 1 mA Ground -50 Vdc 0.1 mA 0 -1300 Vdc 0.1 mA -1500 Vdc 180 Vdc 1 mA 125 Vdc -200 Vdc 0.1 mA -200 Vdc -10.3 kV 260 mA -10 kV 5.36 kV 45 mA 52% x E	Voltage Current Voltage Min. Voltage Max. -6.3 Vdc 1.6 A -6.0 Vdc -6.6 Vdc Ground 7 mA Ground Ground Ground -50 Vdc 0.1 mA 0 -75 Vdc -75 Vdc -1300 Vdc 0.1 mA -1500 Vdc -1700 Vdc 180 Vdc 1 mA -250 Vdc -500 Vdc -200 Vdc 0.1 mA -200 Vdc -500 Vdc -500 Vdc -500 Vdc -10.3 kV 260 mA -10 kV -10.5 kV 52% x Ek ±2% 52% x Ek ±2%

Cathode voltage is measured with respect to ground.

Heater, Collector, and Grid or Focus Electrode (FE) voltages are measured with respect to Cathode.

This model number is controlled by the International Traffic in Arms Regulations, and can only be exported via a U.S. Department of State export license. They may not be transferred, transshipped on a non-continuous voyage, or otherwise be disposed of in any other country, either in their original form or after being incorporated into other end-items, without the prior written approval of the U.S. Department of State.



Specifications are subject to change without notice.

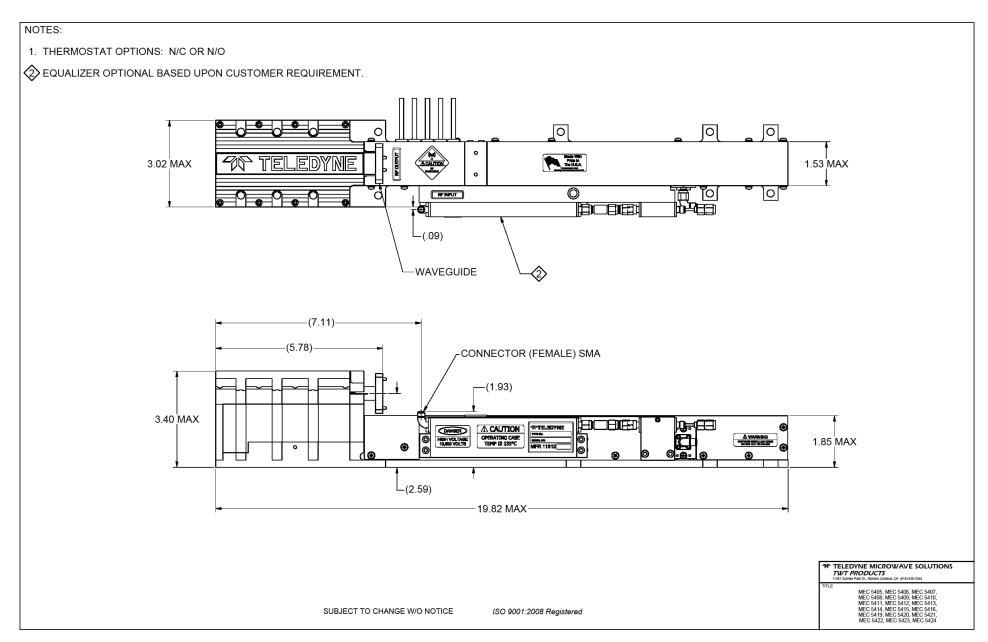
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RF Performance

Freq (GHz)	Typ. Sat. Power Output (W)	Min. Spec. Power Output (W)	Typ. Gain @ Spec. Power (dB)
6.5	215	200	35
7.0	240	200	40
8.0	250	200	41
9.0	275	200	43
10.0	225	200	45
11.0	275	200	45
12.0	275	200	46
13.0	275	200	46
14.0	275	200	45
15.0	250	200	43
16.0	240	200	41
17.0	230	200	48
18.0	220	200	35

Typical power output is shown to illustrate capability. Typical gain shown is without equalizer.

Performance	Typical	Spec
Input VSWR	2:1	
Output VSWR	2:1	2.25:1
Max. Duty	—	CW
FE Capacitance	50 pF	65 pF
Grid Capacitance		50 pF
Min. Harmonic Separation	6 dBc	5 dBc
Noise Power Density		
(dBm/MHz)	15	10
Prime Power	1095 W	1400 W



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