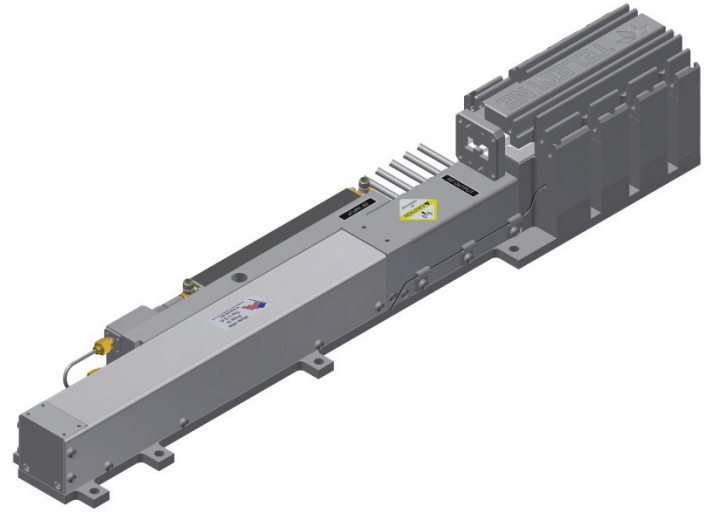
MEC 5337
Communication TWT
Dual Band

- 350 W Minimum Power
- Dual Band
- -40° to 85° C
- 1412 W Typ. Prime Power
- 38/52 dB Typical Gain
- 19.8" L x 3" W x 3.4" H (50.34 x 7.67 x 8.64 cm)
- Phase Match Available



Typical Operating Conditions

Element	Voltage	Current	Power Supply Requirements Voltage Min.	Voltage Max.	Current Max.
Heater	-6 Vdc	1.62 A	-5.6 Vdc	-6.6 Vdc	2.5 A
Helix					
with RF	Ground	5 mA	Ground	Ground	10 mA
without RF	Ground	0.6 mA	Ground	Ground	10 mA
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 (E_k)	-10.5 kV	300 mA	-10 kV	-10.8 kV	310 mA
Collector w/RF					
Coll. #1	5.88 kV	60 mA	56% x E_k ±2%		150 mA
Coll. #2	4.2 kV	235 mA	40% x E_k ±2%		310 mA

Cathode voltage is measured with respect to ground.
Heater, Collector, and Grid voltages are measured with respect to Cathode.

RF Performance

Freq (GHz)	Typ. Sat. Power Output (W)	Min. Spec. Power Output (W)	Typ. Gain @ Spec. Power (dB)
5.850	375	350*	38
6.150	375	350	38
6.650	375	350	38
13.750	420	400**	52
14.000	420	400	52
14.250	420	400	52
14.500	420	400	52

Typical power output is shown to illustrate capability.
Typical gain shown is with equalizer.
/ Minimum harmonic separation applies to the minimum specified power output at the indicated frequency.*

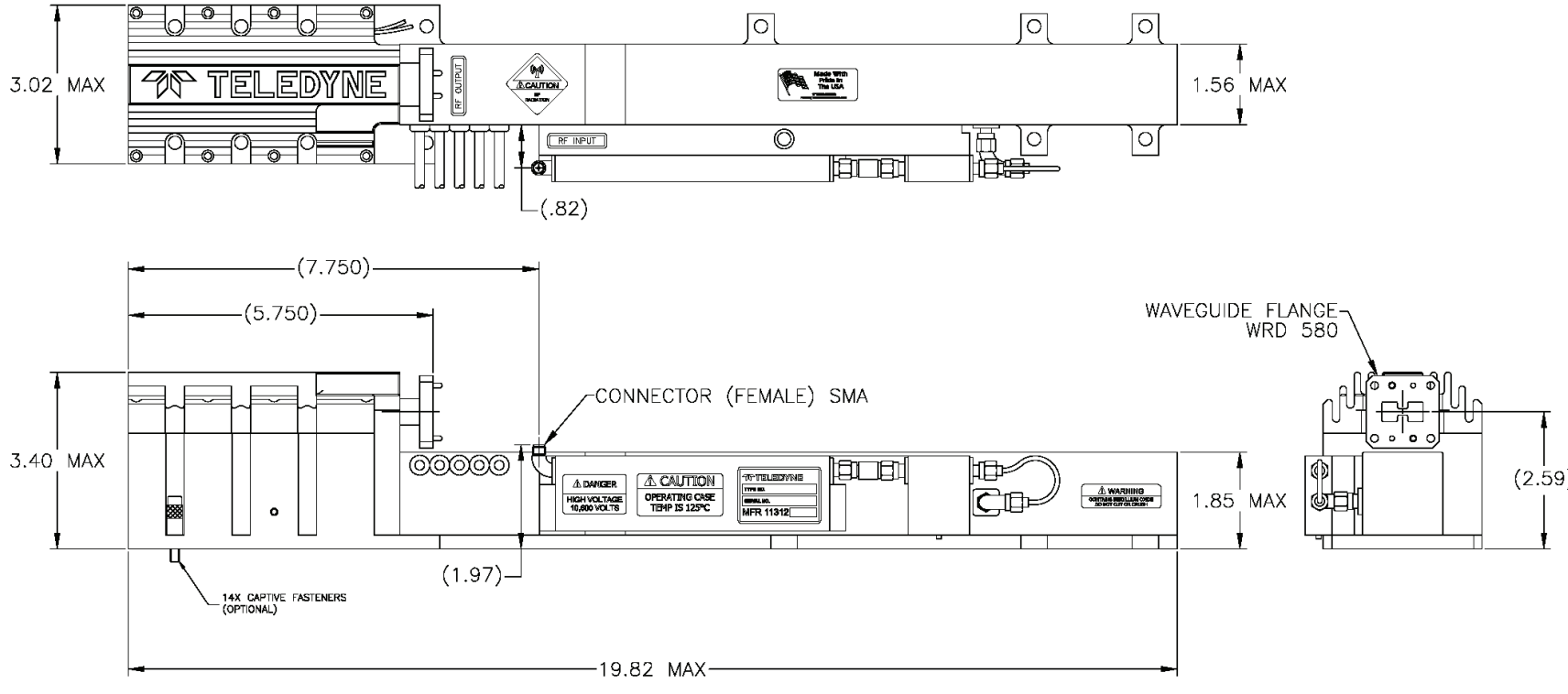
Spectral Regrowth

Freq (GHz)	Min. Linear Power (W)	Modulation	Level @1 Symbol Rate
5.85	225	QPSK	-26 dBc
6.425	225	QPSK	-26 dBc
13.75	125	QPSK	-26 dBc
14.5	125	QPSK	-26 dBc

Performance	Typical	Spec
Input VSWR	1.8:1	2:1
Output VSWR	2.3:1	2.5:1
Max. Duty	—	CW
Grid Capacitance	37 pF	50 pF
Min. Harmonic Separation	-5/-20 dBc	-3*/-15** dBc
Noise Power Density (dBm/MHz)	-12	-10
Prime Power	1412 W	1450 W

NOTES:

1. THERMOSTAT OPTIONS: N/C OR N/O



SUBJECT TO CHANGE W/O NOTICE *ISO 9001:2008 Registered*

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TITLE

MEC 5337

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