

# Traveling-Wave Tubes (TWTs) for Space



Stellant has over 6 decades of experience developing TWTs in support of commercial, civil & military space missions. Our TWTs are key components for space-based communications satellites and range from UHF to V-Band with output power up to 300+ Watts.

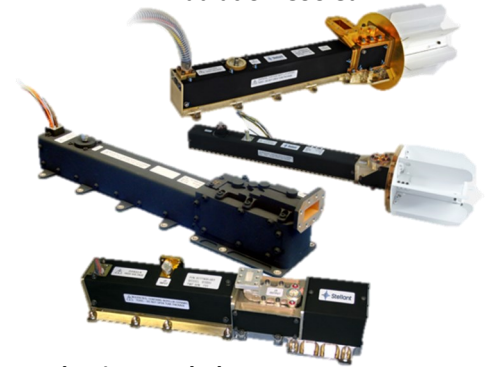
**In Orbit: > 4700**

**Operating Hours: 340 million | Spot FIT Rate: < 50**



**The ONLY Manufacturer of Space-Qualified TWTs in the USA**

**Radiation-Cooled**



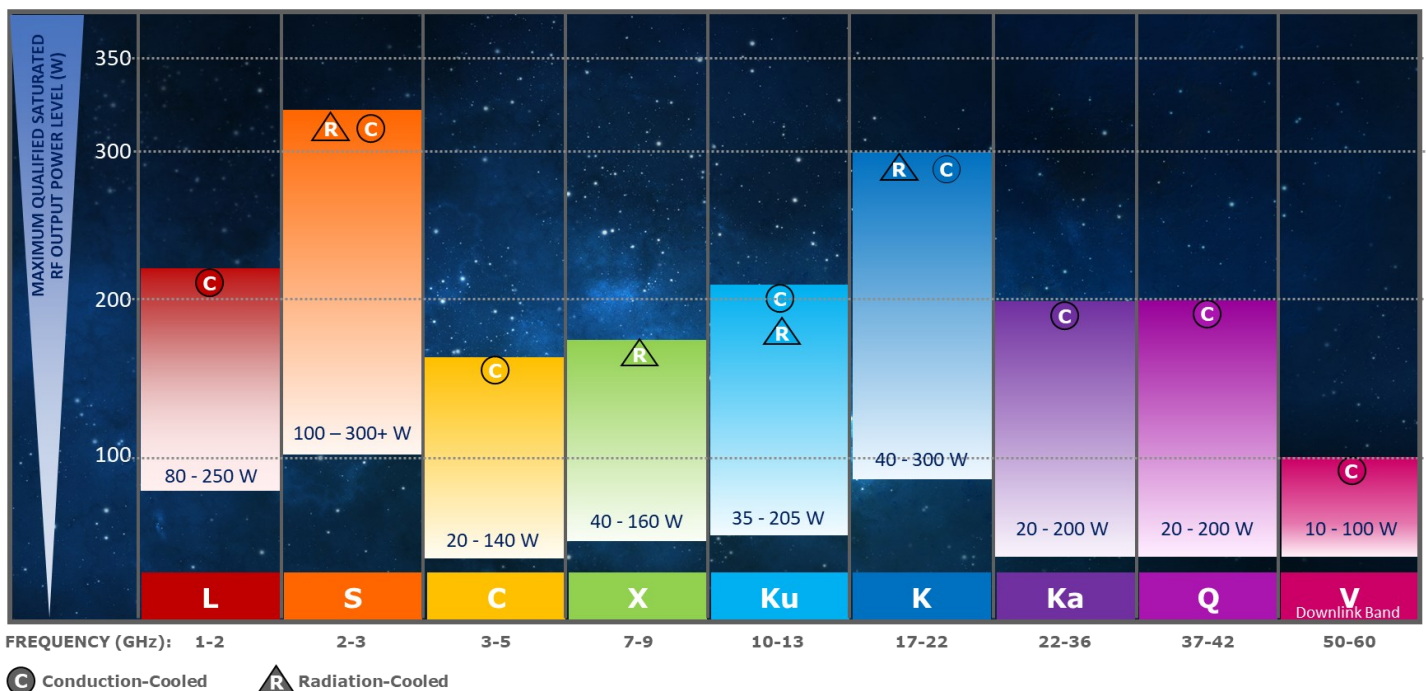
**Conduction-Cooled**



**V-Band Uplink TWT**

### KEY FEATURES

- \* Space-Qualified
- \* High-Reliability
- \* Radiation/ Conduction-Cooled





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## PRODUCT LISTING

MODEL	Band	Package (Conduction/Radiation Cooled)	POUT	Frequency Range (GHz)	Approximate Efficiency	Approximate Weight	Units In Orbit
83200 H	L	CC	80 - 250 W	1.05-1.8	63-70%	3200 g	4
8412 HxR	S	RC	100 - 140 W	1.9 - 2.8	60 - 65%	1270 g	417
84250 Hx/HxR	S	CC/RC	200 - 300 W	2 - 2.8	70%	3200/3500 g	80
8555 Hx	C	CC	20-120 W	3.4 - 4.8	65 - 69%	790 g	698
86160 Hx	X	CC	40 - 160 W	7.0-8.5	63- 67 %	895g	160
86160 HxR	X	RC	100-160 W	7 - 8.5	64 -69%	1150	38
88150 Hx	Ku	CC	35-205 W	10.7 - 13.5	60 - 71%	695 g	463
88150 HxR	Ku	RC	35 - 180 W	10.7 - 13.5	60 - 72%	950 g	1,938
9110Hx/9110HxR	K	CC and RC	40-140 W	17 - 22	58 - 68%	995 g	1938
9250Hx/HxR	K	CC and RC	150-300 W	17 - 22	63 - 68%	995 g	188
99xxH	Ka/Q/V	CC	10-200 W	23-66	30 - 60%	1500g	7

**Stellant Systems** is a partner for civil, military, and commercial organizations whose missions seek to ensure a safe, aware, and connected world. We are a premier manufacturer of critical spectrum and power amplification systems for defense, space, medical & scientific and industrial customers worldwide.

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