Traveling-Wave Tubes (TWTs) for Space

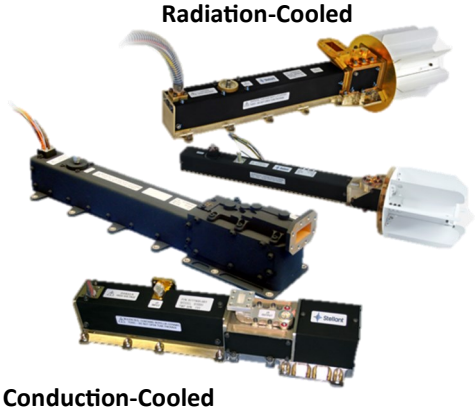
Stellant has over 6 decades of experience developing TWTs in support of commercial, civil & military space missions. Our TWTs are key components for space-based communications satellites and range from UHF to V-Band with output power up to 300+ Watts.

In Orbit: > 4800

Operating Hours: 360 million | Spot FIT Rate: < 50

The ONLY Manufacturer of Space-Qualified TWTs in the USA

Radiation-Cooled

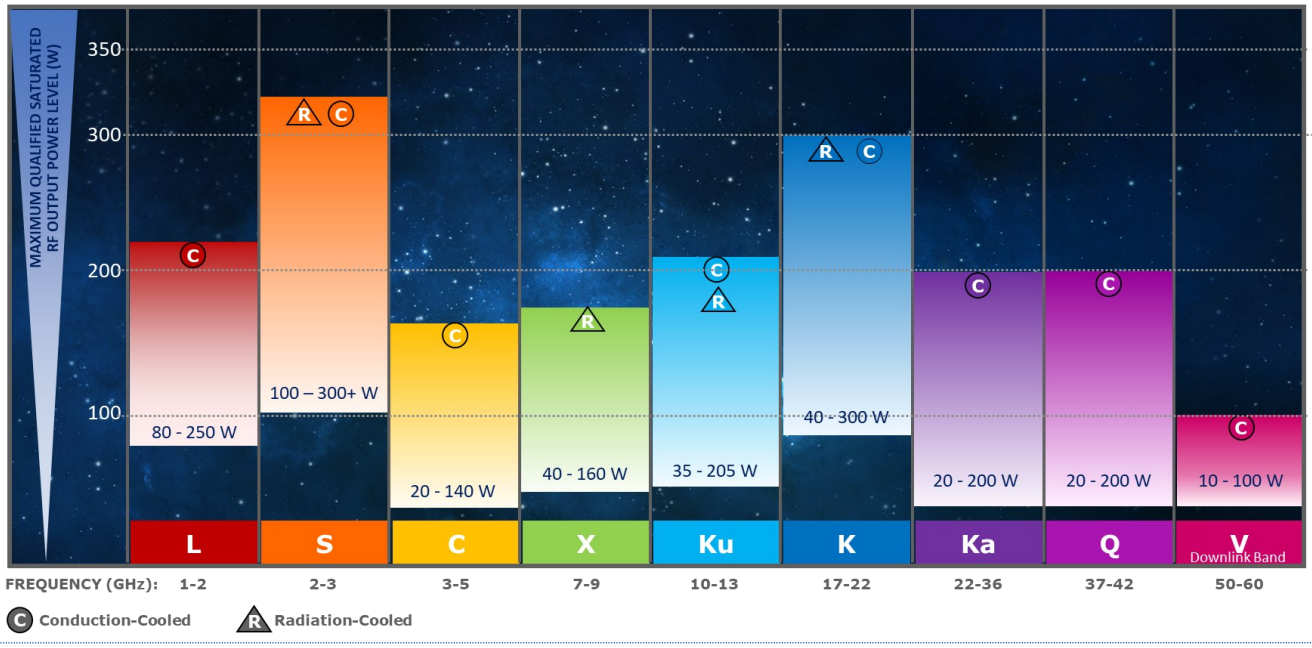


Conduction-Cooled

V-Band Uplink TWT

KEY FEATURES

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



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PRODUCT LISTING

MODEL	Band	Package (Conduction/ Radiation	POUT	Frequency Range (GHz)	Approximate Efficiency	Approximate Weight	Units In Orbit
83200H	L	CC	80 - 250 W	1.05-1.8	63-70%	3200 g	4
8412HxR	S	RC	100 - 140 W	1.9 - 2.8	60 - 65%	1270 g	417
84250Hx/HxR	S	CC/RC	200 - 300 W	2 - 2.8	72%	3200/3500 g	80
8555Hx	C	CC	20 - 120 W	3.4 - 4.8	65 - 69%	790 g	698
86160Hx	X	CC	40 - 160 W	7.0-8.5	63- 67 %	895g	160
86160HxR	X	RC	100 - 160 W	7 - 8.5	64 -69%	1150	38
88150Hx	Ku	CC	35 - 205 W	10.7 - 13.5	60 - 71%	695 g	475
88150HxR	Ku	RC	35 - 180 W	10.7 - 13.5	60 - 72%	950 g	1,951
9110Hx/9110HxR	K	CC and RC	40 - 140 W	17 - 22	58 - 68%	770/1000 g	357
9250Hx/HxR	K	CC and RC	150 - 300 W	17 - 22	63 - 68%	1400/1700 g	0
99xxH	Ka/Q/V	CC	10 - 200 W	23-66	30 - 60%	1500g	37

Stellant Systems is a premier manufacturer of critical spectrum and RF power amplification products to the space, defense, medical, science and industrial markets for both domestic and international customers. Stellant has 5 domestic manufacturing facilities and approximately 1,100

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AS 9100 CERTIFIED ISO 9001 CERTIFIED

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