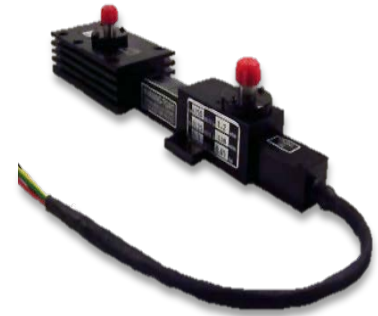




Conventional Traveling Wave Tubes

Applications

- Electronic Countermeasures
- Radar
- Airborne Military Platforms
- Rack Mount Amplifier
- Communications and SatCom



Photonis USA Pennsylvania manufactures helix type TWTs which provide superior wide-band performance. The tubes are of metal-ceramic construction for severe environmental conditions and utilize rare earth periodic permanent magnets for power-

free focusing. This combination creates a rugged, light weight device suitable for any airborne or ground-based military platform. Photonis offers an extensive selection of fully developed designs and can design a TWT to meet your specific requirements.



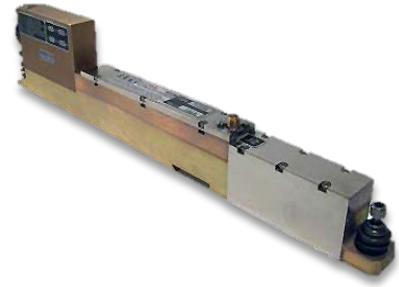
CW Traveling Wave Tubes

Part Number	Frequency Band (GHz)	Output Power (W)	Gain @ Rated Power	Cathode Voltage	Cathode Current (mA)	Grid or Focus Voltage (V)	Duty Cycle (%)	# Collector Electrodes	Weight (lbs)	Size L x W x H (in)
2272	2.0 – 4.0	100	30	-7000	180	-	CW	2	3.0	18 x 1.75 x 2
2438	2.0 – 6.0	100-125	30	-3000	190	-1200/0	0-100	5	2.4	11.25 x 1.5 x 2
2491	2.0 – 8.0	100-200	40	-3350	265	-1200/0	0-100	3	3.0	13.25 x 1.5 x 2
2498	2.0 – 8.0	200-300	35	-4000	310	-1200/0	0-100	3	3.0	11.3 x 1.5 x 1.5
2454	2.3 – 7.0	180-250	30	-4000	350	- 40/+250	0-100	4	3.75	13.6 x 2.6 x 1.5
2286	5.0 – 11.0	50-100	32	-7000	180	-	CW	2	2.5	14 x 1.5 x 1.75
2497	6.0 – 18.0	125-250	30	-7100	225	-1200/0	0-100	3	2.3	10.7 x 1.5 x 1.9



Pulsed Traveling Wave Tubes

For higher peak RF power required by radar, radar jamming and other pulsed RF applications, Photonis offers pulse mode TWTs at varying frequency and power levels. A selection of the many TWT designs is presented in the table below.



Part Number	Frequency Band (GHz)	Output Power (W) ¹	Gain @ Rated Power ²	Cathode Voltage ³	Cathode Current (mA)	Grid or Focus Voltage (V) ⁴	Max Duty Cycle (%)	# Collector Electrodes	Weight (lbs)	Size L x W x H (in)
2154	4.0 – 8.0	1000	28	-9750	1.8	-150/+150	4.0	1	10.0	14.5 x 3.2 x 2.7
2213	2.0 – 4.0	1000	35	-7800	1.8	-150/+150	3.0	1	6.5	∅2.2 x 18L
2214	4.0 – 8.0	1000	28	-9750	1.8	-150/+150	3.0	1	10.0	∅2.64 x 15L
2246	2.0 – 4.5	1000	35	-7800	1.5	-150/+150	4.0	1	7.5	17.3 x 3.6 x 2.4
2301	8.0 – 18.0	1000	45	-11000	1.8	-150/+150	4.0	1	6.0	15 x 1.7 x 2.4
2413	6.5 – 16.5	400	50	-6600	0.8	-150/+ 95	7.0	1	2.5	11 x 1.5 x 1.5
2154	4.0 – 8.0	1000	28	-9750	1.8	-150/+150	4.0	1	10.0	14.5 x 3.2 x 2.7

¹ Minimum output power over bandwidth

² Minimum gain over bandwidth at rated power

³ Voltage relative to case/ground

⁴ Voltage relative to cathode

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