Miniature Traveling Wave Tubes

Photonis has been manufacturing Traveling Wave Tubes (TWTs) since their invention in the early 1940's. The company began making miniature TWTs in 1972 and developed the first micro TWT in the early 1980's. The company introduced metal-to-ceramic construction which is now the industry standard and was the first to apply fast warm-up technology to miniature TWTs in a production environment. Photonis manufactures only helix-type TWTs with periodic permanent magnet (PPM) focusing providing excellent broadband performance. The majority of Photonis TWTs are conduction cooled.

PART NUMBER	FREQUENCY (GHz)	OUTPUT POWER (WATTS)	GAIN (dB)	CATHODE VOLTAGE (KV)	COLLECTOR VOLTAGE (KV)	CATHODE Current (AMPS)
2169	7.0-17.5	22	47	-3.90	-1.95	0.115
2223	9.45-10.55	70	55	-4.20	-2.10	0.125
2233	14.35-15.55	70	55	-4.50	-2.25	0.126
2268	8.0-18.0	20	37	-3.90	-1.95	0.115
2279	14.0-14.5	75	60	-4.70	-2.35	0.130
2315	7.5-16.0	70	40	-5.20	-2.5, -3.1	0.160
2320	9.7-15.4	50	47	-4.30	-2.20	0.150
2414	6.0-18.0	100	31	-6.35	-3.18	0.215
2438	2.0-6.0	150	30	-3.00	5-Stage	0.220
2441	6.0-18.0	70	60	-4.30	5-Stage	0.160
2443	6.0-18.0	100*	38	-4.30	-2.15	0.165

PHOTONIS USA Pennsylvania, Inc. 1000 New Holland Avenue,
Lancaster PA 17601 T: +1 (717) 295 2704 or Toll Free US/Canada (800) 366 2875
E: info@photonisusa.com W: www.photonis.com

PHOTONIS
Power and Microwave