

Product Summary - Tubes

Travelling Wave Tubes

Part	Type	Freq Range	Peak Power	Duty Cycle	Gain (Min)	Pulse Length	Structure Voltage	Peak Beam Current	Collector Volts (Wrt. Cathode)	Focussing	Weight
		GHz	kW	(max)	dB	us	kV	A	kV		kg
PT6019	ring bar	1.2 - 1.4	150	0.035	45	100	40	14	UD	IS	110
PT6049	ring bar	1.2 - 1.4	170	0.05	45	100	43	14	36	IS	115
PT6055	coupled cavity	2.75 - 3.05	50	0.023	50	30	33	9	22	PPM	41
PT6062	ring loop	8.5 - 9.5	8	0.02	60	10	14.5	3	9.5	PPM	2.5
PT6067	ring loop	8.7 - 9.2	8	0.002	60	30	14.5	2.7	11	PPM	2.5
PT6088	ring loop	8.9 - 9.4	8	0.02	60	30	14.5	2.7	11	PPM	2.5
PT6074	ring loop	9.0 - 9.5	5.3	0.03	60	40	13.5	2	10	PPM	2.5
PT7105	ring loop	9.0 - 9.5	8	0.02	60	10	14.5	2.7	11	PPM	2.5
PT6073	ring loop	9.2 - 9.4	8.5	0.02	60	20	14.5	2.7	11	PPM	2.5
PT6109	ring loop	9.5 - 10.0	8	0.02	60	30	14.5	2.7	10	PPM	2.5
PT6713	ring loop	14.5 - 17.0	2	0.02	63	40	11-15	1	8.5	PPM	1
PT6715	ring loop	16.0 - 17.0	2	0.02	63	40	11.5	1	8	PPM	1
The PT6715 has proved to be a very robust design which can be adapted to a wide variety of different power, gain and duty levels. The following variants have already been produced and work is in progress to further extend the performance. In addition all of these variants are fast-warm (< 5 seconds)											
	ring loop	Ku	0.2	0.55	35/55	20	8	0.2	4/5	PPM	1.5/2.0
	ring loop	Ku	0.4	0.33	35/55	20	8	0.35	4/5	PPM	1.5/2.0
	ring loop	Ku	0.5	0.25	35/55	20	8	0.45	4/5	PPM	1.5/2.0
	ring loop	Ku	1	0.1	35/55	20	8	0.8	4/5	PPM	1.5/2.0

Notes PPM – Periodic Permanent Magnet IS – Integral solenoid

