

Product Summary – Instrumentation Amplifiers

Standard Broadband Amplifiers

CW **1 – 18.0 GHz** (also CW/pulsed options available)

Type Number	Frequency Range (GHz)	Output Power (W Min)	Minimum Gain (dB)	Height	Length (mm)	Weight (kg)
Low Power						
PTC6341	0.8 - 2.8	250	54	4U	700	30
PTC6342	2.0 - 4.0	250	54	4U	700	30
PTC6492	2.0 - 6.0	200	54	4U	700	30
PTC6343	2.5 - 8.0	250	54	4U	700	30
PTC6344	4.0 - 8.0	250	54	4U	700	30
PTC6581	6.5 - 18.0	200	53	4U	700	30
PTC6348	7.5 - 18.0	250	54	4U	700	30
PTC6322	6.0 - 18.0	300	55	4U	700	30
Medium Power						
PTC6440	0.8 - 2.5	500	57	4U	800	37
PTC6441	2.5 - 7.5	500	57	4U	700	35
PTC6522	6.0 - 18.0	550	57	8U	700	48
PTC6442	7.5 - 18.0	500	57	8U	700	48
High Power						
PTC7440	1.0 - 2.5	1000	60	8U	700	50
PTC7441	2.5 - 7.5	1000	60	8U	700	50
PTC7442	7.5 - 18.0	1000	60	12U	700	80

Pulsed **1 – 18.0 GHz**

Type Number	Frequency Range (GHz)	Output Power (W Min)	Minimum Gain (dB)	Duty Cycle (Max %)	Pulse Length (us)	Height	Length (mm)	Weight (kg)
Low Power								
PTC7351	1.0 - 2.5	2000	63	6	0.2-100	4U	800	30
PTC6352	2.0 - 4.0	2000	63	6	0.2-100	4U	700	30
PTC6353	2.5 - 8.0	1700	60	6	0.2-100	4U	700	30
PTC6354	4.0 - 8.0	2000	63	6	0.2-100	4U	700	30
PTC6338	5.0 - 11.0	1900	70	5	0.2-100	4U	700	30
PTC6358	7.5 - 18.0	1500	62	6	0.2-100	4U	700	30

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Medium Power								
PTC7351	1.0 - 2.5	2000	63	6	0.2-100	4U	800	30
PTC7353	2.0 - 8.0	2000	60	6	0.2-100	4U	700	30
PTC6658	8.0 - 18.0	2000	63	4	0.2-20	4U	700	30
PTC6356	8.0 - 12.4	2700	70	8	0.2-100	4U	700	30
High Power (for HiRF testing)								
PTC6704	1.0 - 1.5	10000	60	1	0.2-50	4U	900	40
PTC7355	1.0 – 2.5	4200	66	6	0.2 20	12U	800	125
PTC7030	1.1 - 1.5	30000	65	1	0.2-20	8U	1200	100
PTC6706	1.5 - 2.0	7000	60	1	0.2-50	4U	900	40
PTC6409	1.9 - 2.7	6000	70	6	0.2-50	4U	700	30
PTC7352	2.0 - 4.0	5000	60	6	0.2-20	4U	800	35
PTC7357	2.0 - 4.0	10000	70	6	0.2-20	12U	800	100
PTC6303	2.9 - 4.0	9000	70	4	0.2-100	4U	700	30
PTC7354	4.0 - 8.0	4500	70	6	0.2-100	6U	700	40
PTC6326	8.0 - 12.0	4500	70	6	0.2-50	4U	700	30
PTC6357	8.0 - 11.0	6800	70	5	0.2-50	4U	700	30
PTC7716	8.7 - 10.5	6000	67	7	0.2-50	4U	700	30
PTC6447	10.5 - 12.5	9000	70	2	0.2-20	4U	700	30
PTC6382	12.4 -18.0	3500	70	6	0.2-20	4U	700	35

CW Millimetric (also CW/pulsed options)

Type Number	Frequency Range (GHz)	Output Power (W Min)	Minimum Gain (dB)	Height	Length (mm)	Weight (kg)
PTC6329	18.0 - 28.0	45	50	4U	700	27
PTC6479S	17.5 - 21.5	210	53	4U	700	30
PTC6479	18.0 - 23.0	210	53	4U	780	27
PTC6337	18.0 - 40.0	40	50	4U	700	27
PTC6333	26.5 - 40.0	40	50	4U	700	27
PTC7732	27.0 - 31.0	112	46	4U	780	30
PTC7732S	31.6 - 32.5	220	54	4U	700	27

All units are Integral Forced Air cooled except PTC7030 which is IFA plus internal liquid cooling.

For a summary of TMD's Special Amplifiers, please see the following page.



Product Summary – Instrumentation Amplifiers

Special Amplifiers (in order of starting frequency)

Size: almost all units are 19" wide S = standard = 700 mm long, 4U high (all dimensions given in mm)

* Optional pulse modulation capability: 0.2 - ∞ us pulse

Type Number	Frequency Range (GHz)	Output Power (W Min)	Min Gain (dB)	Duty Cycle (Max %)	Pulse Length (us)	Cooling	Size (See Notes Above)	Weight (kg)
PTC6331	0.8 - 2.8	200	53	100	- *	IFA	S	30
PTC6468	1.2 - 1.4	20,000	70	1	0.2-50	IFA plus Integral Liquid Cooling	1025 L 8U H	110
PTC6443	3.6 - 4.2	4000	64	0.5	0.2-20	IFA	S	35
PTC6310	5.4 - 5.9	10,000	70	5	0.2-20	IFA or internal liquid cooled	S	30
PTC6579	6.0 - 18.0	200	53	100	- *	IFA	S	30
PTC6581	6.5 - 18.0	180	53	100	- *	IFA	S	30
PTC6568	8.5 - 10.5	8000	70	5	0.2-100	IFA	S	30
PTC6445	9.0 - 10.5	8000	70	5	0.2-20	IFA	S	27
PTC6313	12.0 -14.5	350	55	100	- *	IFA	S	30
PTC6553	15.0 - 17.0	3500	65	2	0.2-20	IFA	S	30
PTC6437	18.0 - 23.0	200	53	100	CW	IFA	S	30
PTC6315	20.2 - 21.2	350	56	100	CW	IFA	S	30
PTC6317	27.5 - 31.0	130	51	100	CW	IFA	S	30
PTC7728	27.5 - 30.0	100	50	100	CW	IFA	S	30
PTC7729	27.5 - 30.0	150	47	100	CW	IFA	S	30
PTC6429	34.5 - 35.5	100	40	35	CW	IFA	S	30
PTC7727	43.5 - 45.5	100	60	100	CW	IFA	S	27
Dual Band								
PTC6493	2.83 - 2.93 & 5.49 - 5.59	1000	70	4	0.2-20	IFA	600 L	30
Solid State								
PTS6801	2.975 - 3.025	300	46	1	0.5-20	IFA	478 W 425 L 134 H	11
PTS6434	1.025 - 1.035	1000	60	4	0.5-10	IFA	600	25

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