

InGaAs THERMOELECTRIC COOLED PHOTODIODES

Model No.	Active Diameter (mm)	Operating Temperature (°C)	Peak Wavelength (typ) μm	Cutoff Wavelength (50%) (typ) (μm)	Responsivity @ λ _{PK} (min/typ) (A/W)	Shunt Resistance (typ) (Ω)	Dark Current (max) (nA)	Capacitance (typ) @ 0V (pF)	Bandwidth w/ 50 Ω @ 0 V (MHz)	Rise time w/ 50 Ω @ 0 V (ns)	NEP @ λ _{PK} typ (W/Hz ^{1/2})	Linearity (±0.2 dB @ 0 V) (dBm)	Case Style
GAP1000TE1	1	-10	1.52 ± 0.1	1.65 ± 0.1	0.95/1.0	5.00E+08	3 @ 5 V	80	40	8.8	5.4E-15	10	TO5/TO37/TO8/TO66
GAP2000TE1	2					1.25E+08	20 @ 2 V	300	11	32	1.1E-14	8	
GAP3000TE1	3					1.10E+08	50 @ 2 V	600	5	70	1.1E-14		
GAP5000TE1	5					2.50E+07	100 @ 0.1 V	1000	3	117	2.4E-14		
GAP1000TE1/2.05	1	-10	1.77 ± 0.1	2.02 ± 0.1	0.9/1.0	5.00E+06	500 @ 1 V	500	6.4	55	5.4E-14	6	TO5/TO37/TO8/TO66
GAP2000TE1/2.05	2					8.00E+05	1100 @ 1 V	1600	2	176	1.3E-13		
GAP3000TE1/2.05	3					1.40E+05	1360 @ 0.5 V	4000	0.8	440	3.2E-13		
GAP1000TE1/2.2	1	-10	1.97 ± 0.1	2.17 ± 0.1	0.9/1.0	5.60E+05	1250 @ 1 V	1000	3.18	110	1.6E-13	6	TO5/TO37/TO8/TO66
GAP2000TE1/2.2	2					1.20E+04	5000 @ 1 V	4000	0.795	440	1.1E-12		
GAP3000TE1/2.2	3					4.80E+04	6250 @ 0.5 V	8000	0.397	881	5.5E-13		
GAP1000TE1/2.6	1	-10	2.17 ± 0.1	2.57 ± 0.1	0.9/1.0	4.00E+04	8000 @ 0.5 V	1000	3.2	110	6.0E-13	6	TO5/TO37/TO8/TO66
GAP2000TE1/2.6	2					1.50E+04	32000 @ 0.5 V	4400	0.8	440	9.8E-13		
GAP3000TE1/2.6	3					5.00E+03	50000 @ 0.5 V	10000	0.35	1000	1.7E-12		

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GAP1000TE2	1	-20	1.51 ± 0.1	1.64 ± 0.1	0.95/1.0	1.00E+09	2 @ 5 V	80	40	8.8	3.7E-15	10	TO8/TO66
GAP2000TE2	2					5.00E+08	10 @ 2 V	300	11	32	5.3E-15	8	
GAP3000TE2	3					2.50E+08	20 @ 2 V	600	5	70	7.5E-15		
GAP5000TE2	5					5.00E+07	50 @ 0.1 V	1000	3	117	1.7E-14		
GAP1000TE2/2.05	1	-20	1.76 ± 0.1	2.01 ± 0.1	0.9/1.0	1.00E+07	200 @ 1 V	500	6.4	55	3.7E-14	6	TO8/TO66
GAP2000TE2/2.05	2					1.50E+06	240 @ 1 V	1600	2	176	9.6E-14		
GAP3000TE2/2.05	3					3.40E+05	700 @ 0.5 V	4000	0.8	440	2.0E-13		
GAP1000TE2/2.2	1	-20	1.96 ± 0.1	2.16 ± 0.1	0.9/1.0	9.80E+05	700 @ 1 V	1000	3.18	110	1.2E-13	6	TO8/TO66
GAP2000TE2/2.2	2					1.68E+05	2900 @ 1 V	4000	0.795	440	2.9E-13		
GAP3000TE2/2.2	3					8.40E+04	3600 @ 0.5 V	8000	0.397	881	4.1E-13		
GAP1000TE2/2.6	1	-20	2.16 ± 0.1	2.56 ± 0.1	0.9/1.1	8.80E+04	3600 @ 0.5 V	1000	3.2	110	4.0E-13	6	TO8/TO66
GAP2000TE2/2.6	2					3.30E+04	14500 @ 0.5 V	4400	0.8	440	6.5E-13		
GAP3000TE2/2.6	3					1.10E+04	22700 @ 0.5 V	10000	0.35	1000	1.1E-12		