

Eltec Pyroelectric Detector Performance Comparison

MODEL	SAMPLE		RESPONSIVITY			N.E.P			D STAR		
	SIZE	FREQ	TYP.	MIN.	MAX.	TYP.	MIN.	MAX.	TYP.	MIN.	MAX.
404VM-3	24	1	3.63E+03	2.92E+03	4.92E+03	5.19E-10	1.88E-10	1.49E-09	3.96E+08	1.19E+08	9.43E+08
		10	4.37E+02	3.46E+02	4.92E+02	1.32E-09	5.27E-10	1.04E-08	2.01E+08	1.70E+07	3.36E+08
		100	5.03E+01	3.65E+01	8.38E+01	1.14E-08	1.20E-09	1.48E-07	5.65E+07	1.20E+06	1.48E+08
		1000	4.45E+00	3.68E+00	4.61E+00	7.62E-09	4.12E-09	2.17E-08	2.87E+07	8.16E+06	4.30E+07
405-3	25	1	7.33E+03	6.28E+03	8.52E+03	1.57E-09	4.70E-10	4.85E-09	1.58E+08	3.29E+07	3.39E+08
		10	1.46E+03	1.17E+03	1.75E+03	1.44E-09	9.66E-10	4.09E-09	1.24E+08	3.90E+07	1.65E+08
		100	1.86E+02	1.52E+02	2.15E+02	2.06E-09	1.30E-09	3.29E-09	8.16E+07	4.84E+07	1.22E+08
		1000	1.76E+01	1.42E+01	2.27E+01	5.82E-09	2.40E-09	9.41E-09	2.95E+07	1.69E+07	6.64E+07
406-3	25	1	2.58E+03	2.19E+03	3.10E+03	4.22E-10	2.65E-10	5.09E-10	4.28E+08	3.48E+08	6.68E+08
		10	2.86E+02	2.37E+02	3.10E+02	1.06E-09	7.45E-10	1.36E-09	1.71E+08	1.31E+08	2.38E+08
		100	3.03E+01	2.37E+01	3.28E+01	3.02E-09	1.94E-09	5.49E-09	6.31E+07	3.23E+07	9.15E+07
		1000	3.07E+00	2.30E+00	3.45E+00	1.01E-08	6.20E-09	1.39E-08	1.82E+07	1.28E+07	2.86E+07
407-3	25	1	1.10E+03	8.97E+02	1.57E+03	9.96E-10	7.05E-10	1.62E-09	1.67E+08	9.82E+07	2.26E+08
		10	1.74E+02	1.35E+02	2.91E+02	1.17E-09	1.21E-09	2.45E-09	9.57E+07	6.50E+07	1.32E+08
		100	1.90E+01	1.61E+01	3.14E+01	5.16E-09	2.76E-09	1.33E-08	3.41E+07	1.20E+07	5.77E+07
		1000	1.94E+00	1.42E+00	3.97E+00	1.89E-08	5.29E-09	2.97E-08	1.03E+07	5.37E+06	3.01E+07
408-3	25	1	7.49E+04	6.20E+04	9.48E+04	1.23E-09	6.67E-10	2.25E-09	1.60E+08	7.89E+01	2.66E+08
		10	4.13E+04	3.46E+04	4.92E+04	1.31E-09	1.01E-09	1.83E-09	1.38E+08	9.69E+07	1.76E+08
		100	1.55E+04	1.31E+04	1.82E+04	2.01E-09	1.21E-09	5.37E-09	1.02E+08	3.30E+07	1.47E+08
		1000	2.65E+03	1.84E+03	3.45E+03	9.80E-09	4.01E-09	4.34E-08	2.76E+07	4.08E+06	4.42E+07
441M1-3	25	1	8.78E+04	5.45E+04	1.09E+05	3.29E-09	9.83E-10	8.70E-09	1.13E+08	2.87E+07	2.54E+08
		10	6.14E+04	4.36E+04	8.18E+04	3.80E-09	2.24E-09	8.41E-09	7.35E+07	2.97E+07	1.12E+08
		100	3.43E+04	2.27E+04	5.45E+04	8.07E-09	5.34E-09	1.29E-08	3.37E+07	1.95E+07	4.69E+07
		1000	1.16E+03	9.19E+02	1.38E+03	2.35E-08	1.57E-08	3.66E-08	1.11E+07	6.84E+06	1.60E+07
446-3	25	1	8.81E+04	6.51E+04	1.12E+05	9.96E-10	5.95E-10	1.75E-09	1.72E+08	9.04E+07	2.66E+08
		10	4.53E+04	2.90E+04	5.46E+04	2.87E-09	1.83E-09	4.30E-09	5.84E+07	3.67E+07	8.63E+07
		100	2.03E+04	1.07E+04	2.60E+04	5.37E-09	3.44E-09	8.42E-09	3.10E+07	1.88E+07	4.59E+07
		1000	1.91E+03	1.35E+03	2.94E+03	1.69E-08	1.31E-08	2.27E-08	9.53E+06	6.96E+06	1.21E+07

Note: 7.6 um to 14.6 um wavelength band, 500K, 1 Hz BW
Supply Voltage + 15 VDC
Source resistor 22 kOhms