

Pearson Custom Current Monitors

Model #	Time Domain Parameters						Frequency Domain Parameters			
	Output		Peak	Useable			Max.	3dB	3dB	I/f
	(Volts/ Amp)	Hole Id. (inches)	Curr. (Amps)	Droop (%/msec.)	Rise Time (nsec.)	IT Max. (Amp-sec.)	RMS Curr. (Amps)	pt. Low (Hz)	pt. High (MHz)	(peak Amps /Hz)
5753	10	2.0	50	700	150	0.0005	4	1,000	3	0.004
5834	10	2.0	50	300	350	0.001	4	500	1	0.006
8600	10	2.0	10	35,000	3	0.00005	1	45,000	125	0.00007
2854	1	5.0	500	40	15	0.04	5	30	20	3.5
7737	1	10.75	500	500	40	0.006	35	750	9	0.003
8181	1	1.0	500	80	15	0.002	5	125	20	0.014
8122	1	2.0	500	4	400	0.1	40	6	1	0.6
6027	1	Coaxial	100	200	2	0.0004	2.5	300	200	0.0025
8440	1	3.5	500	3	350	0.25	75	4	1	1.5
804	0.1	2.0	5,000	50	20	0.5	75	30	20	3.5
804R	0.1	2.0	5,000	12	20	0.6	75	20	20	3.5
8611	0.1	4.0	5,000	1.5	40	0.5	140	2	10	3
3363	0.1	5.0	5,000	90	40	1	150	120	10	7.5
3382	0.1	15.0	1,000	50	80	1.5	250	100	4	10
4285	0.1	10.75	5,000	1.5	50	0.4	300	2	7	5.7
5011	0.1	0.25	400	20	5	0.004	10	30	70	0.025
5673	0.1	2.0	5,000	100	9	0.15	100	150	40	1.1
8365	0.1	0.25	400	7	20	0.004	10	10	20	0.025
8606	0.05	10.75	10,000	0.5	75	3	600	1	5	21.2
2811A	0.02	0.5	1,000	1	500	6	150	1.5	0.7	40
8535	0.01	1.0	25,000	0.3	25	0.6	120	0.5	15	4
4191	0.01	4.0	50,000	4	60	5	400	6	7	35
4994	0.01	2.0	50,000	3	100	4.5	200	5	4	25
5803	0.01	10.75	50,000	4	200	12	1,000	7	2	80
5624	0.01	2.0	20,000	9	25	2	150	12	20	12
7427A	0.01	2.0	4,000	2	5	0.2	100	5	70	1.2
5008	0.01	0.5	50,000	6	150	2	150	10	3	12
8573	0.01	3.5	50,000	0.02	200	30	750	0.03	2	225
6247A	0.005	4.0	100,000	2	350	20	1,500	3	1	120
4427	0.001	3.5	500,000	0.1	300	480	2,800	1	1.2	3,060
5623	0.001	2.0	200,000	1	200	15	400	1.5	2	90
3880	0.001	12 x 2	100,000	0.3	500	150	1,200	0.5	0.7	1,000
2445	0.001	14.5	500,000	1.5	300	40	3,000	3	2	250
4906	0.001	10.75	500,000	1	400	50	2,000	2	1.5	300
7561	0.0005	4.75	1,000,000	0.2	2,000	750	3,500	0.15	0.2	3,500

CLAMP-ON:

Model #	Time Domain Parameters						Frequency Domain Parameters			
	Output (Volts/ Amp)	Hole Id. (inches)	Peak Curr. (Amps)	Droop (%/msec.)	Useable Rise Time (nsec.)	IT Max. (Amp-sec.)	Max. RMS Curr. (Amps)	3dB pt. Low (Hz)	3dB pt. High (MHz)	I/f (peak Amps /Hz)
8240	2	2.0	500	n/a	12	n/a	n/a	100,000	30	n/a
8546	1	2.0	500	10	600	0.15	50	15	0.5	1.1
8375	1	2.0	500	7,000	4	0.001	10	11,000	100	0.007
8536	1	9.0	500	750	75	0.007	25	1,250	5	0.04
8579	0.1	10.75	5,000	250	50	0.7	120	400	7	4.4
6996	0.1	2.0	5,000	1,040	25	0.5	100	2,000	20	3
8330	0.01	2.0	1,000	100	7	0.3	100	200	50	2.1
7325	0.01	3.5	50,000	3	200	400	100	5	2	140
5769	0.05	3.5	10,000	8	100	4	250	12	3.5	25
8688	0.005	3.5	100,000	1.5	25	50	320	1.5	2.5	320
8591	0.001	6.0	500,000	0.3	400	15	1,000	0.4	1	105

DOUBLE-SHIELDED:

Model #	Time Domain Parameters						Frequency Domain Parameters			
	Output (Volts/ Amp)	Hole Id. (inches)	Peak Curr. (Amps)	Droop (%/msec.)	Useable Rise Time (nsec.)	IT Max. (Amp-sec.)	Max. RMS Curr. (Amps)	3dB pt. Low (Hz)	3dB pt. High (MHz)	I/f (peak Amps /Hz)
7266	1	0.5	500	0.09	10	0.002	5	140	35	0.006
7305	1	1.75	500	0.08	20	0.005	7.5	125	20	0.017
3464	0.1	1.75	5000	0.8	20	0.5	100	1	20	1.7
4936	0.1	0.5	5000	0.9	20	0.2	50	1	20	0.6
5007	0.01	1.75	20000	0.3	20	1	150	0.5	20	3.5
5405	0.01	0.5	50000	6	150	2	150	10	3	12
8574	0.025	1.75	20,000	100	100	0.5	100	160	4	3

THIN MODELS:

Model #	Time Domain Parameters						Frequency Domain Parameters			
	Output (Volts/ Amp)	Hole Id. (inches)	Peak Curr. (Amps)	Droop (%/msec.)	Useable Rise Time (nsec.)	IT Max. (Amp-sec.)	Max. RMS Curr. (Amps)	3dB pt. Low (Hz)	3dB pt. High (MHz)	I/f (peak Amps /Hz)
<u>7713-03</u>	1	0.22	100	600	1.5	0.0002	2	1000	250	0.0014
<u>8105-03</u>	0.1	0.22	300	50	10	0.002	6	50	40	0.013
<u>5974</u>	0.1	0.5	5,000	1	20	0.15	50	2	20	0.6
<u>8500</u>	0.1	2.0	5,000	4	20	0.1	75	10	20	0.6
<u>8445</u>	0.1	2.0	5,000	4	20	0.1	75	10	20	0.6
<u>8568</u>	0.01	0.5	25,000	0.4	25	0.4	100	0.8	15	2.5
<u>8532</u>	0.01	1.0	10,000	0.5	25	0.5	100	0.7	15	3
<u>7765</u>	0.01	2.0	20,000	1	25	0.25	150	1	20	1
<u>6535-03</u>	0.005	0.22	5,000	1.5	20	0.04	30	2.5	20	0.25

- **Accuracy** ±1%, initial pulse response for all models unless otherwise stated, with a high impedance load such as 1 megOhm in parallel with 20 pF. A 50 Ohm termination will reduce the output to half.
- **Droop:** For a flat top current pulse, the output voltage decays toward zero. Initially, the decay appears linear and the slope is referred to as the droop rate.
- **Usable Rise Time:** If the 10 to 90% rise time is greater than the specified usable rise time, initial overshoot will be less than 10% of the pulse amplitude.
- †= Type N Connector