

PIMI PULSE INPUT SPECIFICATIONS

PART NUMBER

SPEC-PIMI

Input Channels: 8
 Input Characteristics:
 Channel 0

Non-isolated
 Sensitivity: 200mV min. at 1MHz
 Maximum input: 50 VDC or peak AC
 Minimum Rise and Fall Time: 5V/sec
 Input Impedance: 100Kohm//1000pF

Channels 1-7

Non-isolated
 Logic 0 drive = 1.4mA sink at <1V
 Logic 1 drive = 0mA source at >1.4V
 (internal pull up to +5V)

Isolated
 Logic 0 drive = 10mA forward current
 (+ to -)
 Logic 1 drive = <250uA forward current

Isolation:

Technique: optical, switch selectable on channels 1 thru 7
 Channel to Ground: 500V peak max.
 Channel to Channel: 500V peak max.


Frequency Mode:

<u>RANGE*</u>	<u>GATE TIME</u>	<u>RESOLUTION</u>	<u>ACCURACY</u>
8MHz	8.192ms	122Hz	+(0.04% + 122Hz)
1MHz	16.384ms	61Hz	+(0.04% + 61Hz)
200kHz	32.768ms	30Hz	+(0.03% + 30Hz)
1MHz	65.536ms	15Hz	+(0.03% + 15Hz)
500kHz	131.072ms	7.5Hz	+(0.03% + 7.5Hz)
250kHz	262.144ms	3.7Hz	+(0.03% + 3.7Hz)
125kHz	524.288ms	1.9Hz	+(0.03% + 1.9Hz)
62.5kHz	1048.576ms	1Hz	+(0.03% + 1Hz)

* In isolated mode, maximum input is 2MHz.
 Channel 0 maximum input 1MHz.

Pulse Counting Mode:

Maximum Input Pulse Rate: 250kHz with anti-coincidence
 Minimum Pulse Width: 2 μseconds
 Maximum Count: 65,535 with hardware counter only
 4,294,967,304 with cascadable software counter

LTR	REVISIONS	APP.	DATE	DRN.	DATE	 Keithley Instruments Inc. Cleveland, Ohio 44139
A	RELEASED			CKD.	DATE	
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				SPECIFICATIONS		PART NUMBER
						SPEC-PIMI