

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Logic & Pulser **Probes**

DIGITAL TERMS

CLOCK—A pulse waveform used to synchronize the timing of digital or switching circuits.

COMPARATIVE TESTING—Evaluation of a component by comparing its performance to that of a properly functioning component.

DIGITAL SIGNAL—A discrete signal that assumes one of two states: high or low.

TTL—Transistor logic defines a type of digital circuit. It is characterized by a high digital signal state above 2.4 VDC, and low digital states below 0.8 VDC. Operating voltage is typically 5 VDC.

CMOS—Complementary Metal Oxide Semiconductor defines another type of digital circuit. It is characterized by a variable operating voltage of 3 to 18 V, and logic levels proportional to that operating voltage (typically 1.5 V low and 3.5 V high @ 5 V supply).

CMOS circuits are characterized by high noise immunity. IN-CIRCUIT TESTING—Evaluating the functioning of a component without removing the component from the circuit in which it is being used.

Specificati	ons	madal.
		model

	IIIOGEI	
	DP-31A	
Pulse Repetition Rate	0.5 pps/400 pps	
Pulse width at 100 mA load	10ms	
Output Current	Pulser mode-100mA sink/source	
	square wave mode-5 mA sink/source	
Operating Supply		
Voltage Range	5-15 V	
Sync Input Impedance	Ι ΜΩ	
Sync Input Protection	+120 V30 sec.	
Power Supply Protection	+25 V/15 sec.	
Output Protection	+35 V/15 sec.	
Operating Temperature	32° to 122°F (0-50°C) < 80% R.H/	
Storage Temperature	-4° to 149° F (-20° to +65°C), < 80% RH	
Dimensions	0.7 x 0.7 x 8.2" (18 x 18 x 210mm)	
Weight	1.4 oz. (40g)	
	One Year Warranty	

Specifications models **DP-21** DP-52 INPUT CHARACTERISTICS DC to 50MHz DC to 20MHz Frequency response Minimum detectable pulse width 30nS I OnS LOGIC THRESHOLD 2.3V +0.2V 3.0V +0.25V TTL Logic 1 threshold (Red LED) 0.75V +0.25V TTL Logic 0 threshold (Green LED) 0.8V + 0.2VTTL CMOS I threshold (Red LED) 70% Vcc +10% 40% Vcc +5% TTL CMOS 0 threshold (Green LED) 30% Vcc +10% 15% Vcc +5% PULSING Yellow LED Both Red and Green INPUT OVERLOAD PROTECTION +220Vac/DC (15 sec.) +70Vac/DC (15 sec.) INPUT IMPEDANCE 120kΩ GENERAL Power supply protection +20V Operating supply voltage -4° to 149°F (-20° to 65°C) <80% RH Storage temperature 32° to 122°F (0-50°C) <80% RH Operating temperature Dimensions (HxWxD) 0.7 x 0.7 x 8.2" (18 x 18 x 20mm) 1.6oz. (45g) One Year Warranty

Model DP-21

20 MHz Logic Probe

- Tests TTL, and CMOS
- Displays pulse presence and logic states
- Memory mode "freezes" pulse display
- Catches pulses to 30ns or pulse trains to 20MHz
- I $M\Omega$ input impedance



Model DP-52

50 MHz Logic Probe

- Tests TTL and CMOS
- Displays DC to 50 MHz
- Detects 10ns pulse width
- Overload protected

Model DP-31A

Pulser Probe

- For TTL, and CMOS
- Produces 10mS pulse signal at I00mA
- **■** External square wave terminal
- **■** Sync input point





DP-31A