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TECHNOLOGY GROUP

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MULTI-CONTACT DC PROBES



Eye-Pass Probe

The Eye-Pass multi-contact DC probe is designed to provide a multitude of simultaneous connections to a wafer or similar devices. The connections may be ground, logic/signal, standard power and Eye-Pass power. For power-supply connections, Eye-Pass high-performance power-bypass technology delivers low impedance and resonance-free power connections over an extremely wide frequency range. Used with ACP-series probes and/or multi-contact RF Unity Probes, Eye-Pass probes provide functional at-speed testing for Known-Good-Die. Customized for the user-selected footprint that best suits your application, Eye-Pass probes feature up to 12 contacts per probe head, precisely aligned in a highly durable precision tip cluster to provide high compliance.

Features
- High-performance power bypassing for low-impedance and oscillation-free testing to more than 20 GHz
- Mix multiple contact types: Ground, Power (Standard or Eye-Pass), Logic/Signal
- Low and repeatable contact resistance on aluminum pads (< 0.25 Ω on Al, < 0.01 Ω on Au)
- Long probe life with more than 250 k touchdowns for moderate volume production test

Electrical
- Maximum DC current: 1 A
- Maximum DC voltage: 50 V power bypass (>100 V other)
- Series resistance: < 1 Ω (not including Rc)
- Connector: 2 x12 square pin header (ground row furthest from tip), Direct mapping of connector pins to contacts (no custom routing)
- Eye-Pass bypass inductance: 0.4 nH

Mechanical
- Number of contacts: 2 to 12 (Missing contacts count toward max.)
- Available contact pitch: 100 to 250 µm uniform spacing
- Tip material Beryllium copper (BeCu) for gold pads (Au) or tungsten (W)
- Contact area: 50 µm x 50 µm (nominal)
- Contact life > 250 k touchdowns on aluminum pads, > 500 k touchdowns on gold pads

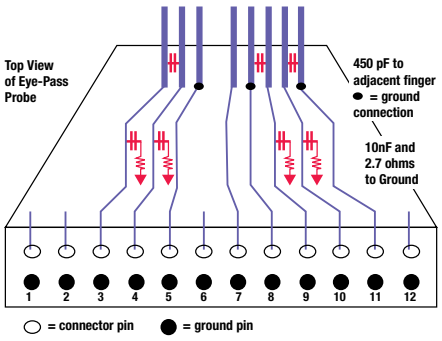
Ordering Information

See Eye-Pass Probe Design Capture page on Eye-Pass probe page at www.cascademicrotech.com to learn how to create a configuration code.

Optional cables available

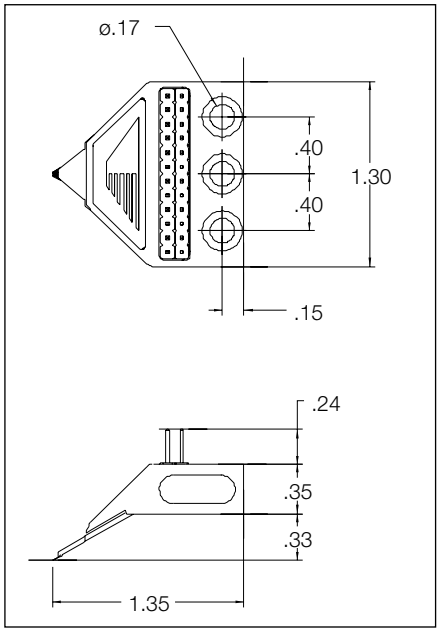
P/N 124-082 BNC Male to 2 pin Molex connector cable, 4ft length (single channel)

Sample Configuration: P'PGXLG'PP'G



Conn Pin number	Contact	Type
1		No Contact
2		No Contact
3	P	Eye-Pass Power**
4	P	Eye-Pass Power
5	G	Ground
6	X	No Contact
7	L	Logic/Signal
8	G	Ground
9	P	Eye-Pass Power
10	P	Eye-Pass Power
11	G	Ground
12		No Contact

**Adjacent ground recommended for best Eye-Pass Power performance



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