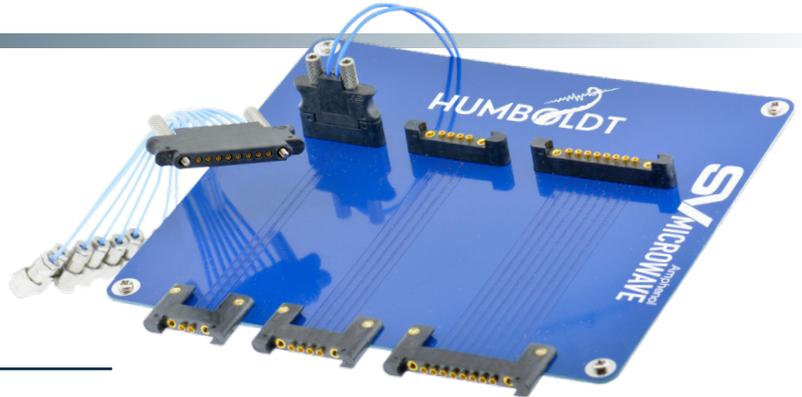


HUMBOLDT RF Interconnects

Features & Benefits

- Keyed, small form factor, RF multiport
- Custom, cost-effective, quick turn, RF harness
- Cable & board mount options with 2, 4 or 8 ports
- 40+ GHz SMPS interface



Harness the power of the world's fastest squid, the Humboldt, with SV Microwave's latest product offering. The Humboldt RF interconnect platform allows users to design their own harnesses using SV's online drag-and-drop multiport builder quickly and intuitively.

Utilizing an injection-molded housing made of glass-reinforced liquid crystal polymer allows SV to offer configurations with a variety of ports, all implementing the small form factor SMPS blindmate interface.

Applications with multiple RF signal paths remain simple, organized, and protected due to the keying feature inherent in the design.



Figure 1 - Left:

Three stacked Humboldt Cable Connectors. All of Humboldt's cable connectors feature thumbscrews for easy installation/removal.

- H12C: Humboldt Female Cable Connector, 2 Port
- H14C: Humboldt Female Cable Connector, 4 Port
- H18C: Humboldt Female Cable Connector, 8 Port

Figure 2 - Right:

An evaluation PCB coupon featuring the 2 port cable connector, H12C, mated to the Edge Launch two port, H12E, connected to SV's solderless Edge Launch 2.92 female connectors.



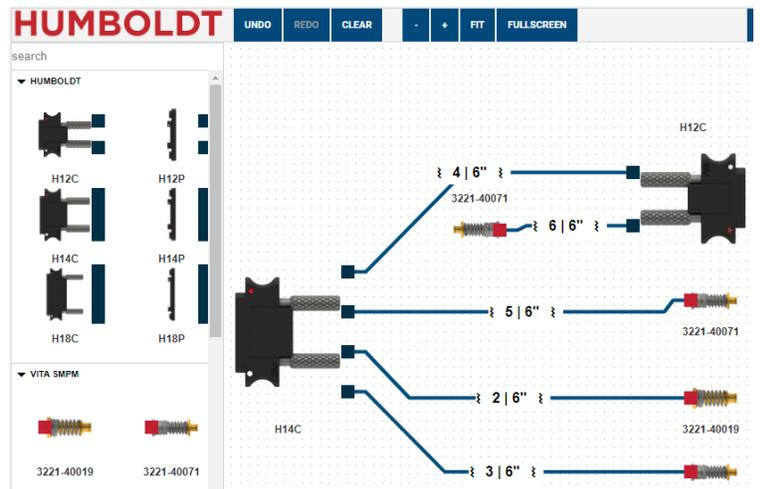
Electrical	
Frequency	40 GHz
VSWR	1.30:1 at 40 GHz
Cross Talk	-85 dB at DC - 20 GHz -75 dB at 20 - 40 GHz

Mechanical	
Insertion Force	1.0 lb nominal per port
Withdrawal Force	0.8 lb nominal per port
Min. Mating Cycles	500
Rec. Mating Torque	12 in-oz
Max Reflow Temp	260° C

LIMITLESS POSSIBILITIES USING THE DRAG-AND-DROP BUILDER

Quick and Easy!

- Shipping in 15 days
- Humboldt, VITA 67 & standard connector options
- Receive instant quotes
- Easily print and share datasheets
- Links to mating PCB connectors on review screen
- Unique part number is easy to re-order
- Download connector datasheets and electrical models directly on SV's website



HUMBOLDT EVALUATION KITS AVAILABLE



SV Microwave has created a Humboldt Evaluation Kit featuring:

- A two port cable assembly: H12C to 2.92mm Male on 6" of Ø.047 flexible coaxial cable
- PCB evaluation coupon with H12E connected to two 2.92mm female solderless edge connectors via CPW

Contact humboldt@svmicro.com or scan the QR code for more information and evaluate Humboldt's performance quality for yourself.



Humboldt

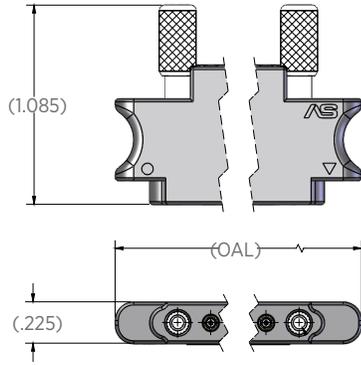


Connector Type

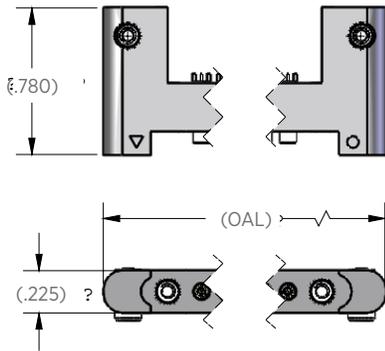
- C - cable
- S - surface
- E - edge
- P - panel

Humboldt Mating Guide (not to scale)						
	H12C	Cable Connector 2 Port	MATES TO	H12S	PCB Surface Mount 2 Port	
				H12E	PCB Edge Mount 2 Port	
				H12P	Panel Mount 2 Port	
	H14C	Cable Connector 4 Port	MATES TO	H14S	PCB Surface Mount 4 Port	
				H14E	PCB Edge Mount 4 Port	
				H14P	Panel Mount 4 Port	
	H18C	Cable Connector 8 Port	MATES TO	H18S	PCB Surface Mount 8 Port	
				H18E	PCB Edge Mount 8 Port	
				H18P	Panel Mount 8 Port	

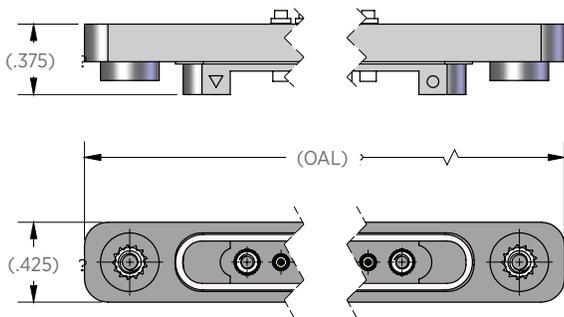
Dimensional Overview (inches)



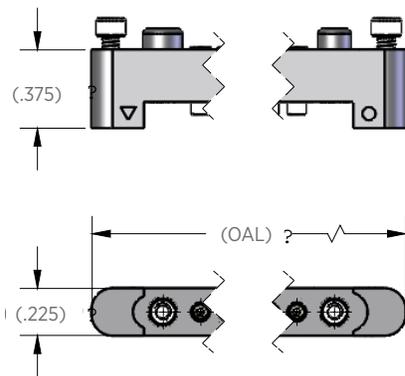
H1XC		
Humboldt P/N	Ports	OAL (in)
H12C	2	1.170
H14C	4	1.430
H18C	8	1.950



H1XE		
Humboldt P/N	Ports	OAL (in)
H12E	2	1.170
H14E	4	1.430
H18E	8	1.950



H1XP		
Humboldt P/N	Ports	OAL (in)
H12P	2	2.220
H14P	4	2.480
H18P	8	3.000



H1XS		
Humboldt P/N	Ports	OAL (in)
H12S	2	1.170
H14S	4	1.430
H18S	8	1.950