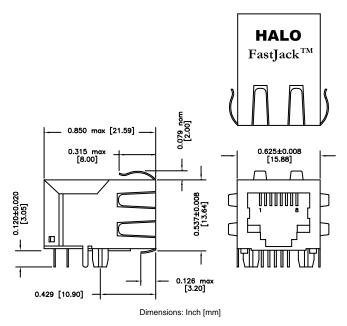


FastJack[™] Single Port 10BASE-T RJ-45 Connectors

HALO is pleased to offer this complete range of single port Integrated RJ-45 connectors. The FastJack™ series integrates the high performance of HALO magnetics into industry standard connector designs. These single port Fastjacks are available in either tab up or tab down designs, and with or without LEDs. The result is an extremely robust, IEEE802.3 compliant solution. The complete FastJack series is UL60950 and EN60950 compliant.



Tab Down Mechanical Drawing

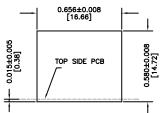


Housing Material: Black thermoplastic, UL94V-0

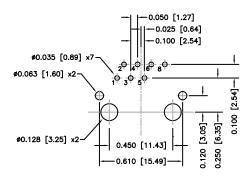
Contacts: Phosphor Bronze, selective plating 30 μ in Gold over Nickel

Terminal Finish: Matte Tin over Nickel Shield: Copper alloy with Nickel finish Durability: 1000 mating cycles

Recommended Panel Cut-out

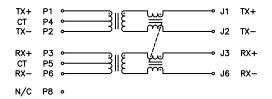


Recommended PCB Layout



Pin 7 Omitted (If No LEDs)
Please see page 3 for LED options.

Circuit A







FastJack ™ P/N	Turns	Turns Ratio		Pri Inductance (μΗ)	
Circuit A	TX	RX	TX	RX	(pF Max)
HFJ11-1041ERL	1:2.5	1:1	35 Min	200 Min	15
HFJ11-1043ERL	1:1.41	1:1	140 Typ	140 Typ	15
HFJ11-1066ERL	2:1	1:1	150 Min	150 Min	10
HFJ11-1075ERL	1:2	1:1	25 Typ	140 Typ	15
HFJ11-1081ERL	1:1	1:1	100 Typ	100 Typ	9
HFJ11-1086ERL	1:2	1:1	50 Min	200 Min	11

Isolation Voltage:1,500 Vrms

Please see individual data sheets for complete electrical specifications.

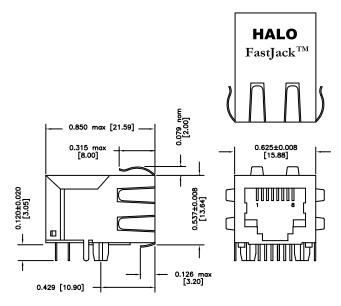


Single Port FastJacks™ With Integrated Filters

HALO is pleased to offer this series of small footprint 10BASE-T FastJacks[™], with integrated filters. This series is ideal for low cost Ethernet Controller chip applications requiring signal filtering. IEEE 802.3 compliant and real estate effective. Check the HALO 10BASE-T selector guide for the FastJack[™] that is correct for your design. The complete FastJack series is UL60950 and EN60950 compliant.



Tab Down Mechanical Drawing



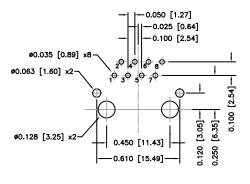
Dimensions: Inch [mm]

Housing Material: Black thermoplastic, UL94V-0

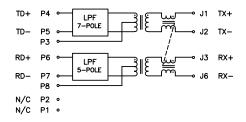
Contacts: Phosphor Bronze, selective plating 30 µin Gold over Nickel

Terminal Finish: Matte Tin over Nickel Shield: Copper alloy with Nickel finish Durability: 1000 mating cycles

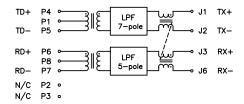
Recommended PCB Layout



Filter Circuit A



Filter Circuit B



Please see page 1 for recommended panel cut-out

Please see page 3 for LED options.

Electrical Specifications @ 25°C

Operating Temp: 0 to +70°C Isolation Voltage: 1,500 Vrms Insertion Loss (5-10MHz): -1dB max -15dB min

Attenuation @ 30MHz

Transmit: -30dB min
Receive: -18dB min
Cut Off Freq. 17MHz typ
Crosstalk (1-10MHz): -30dB min





HALO		Turns Ratio		Pri Impedance	
Part Number	Circuit	TX	RX	TX	RX
HFJ11-S101ERL	Α	1CT:1	1CT:1	100Ω	100Ω
HFJ11-S114ERL	В	1CT:1.41	1CT:1	50Ω	100Ω

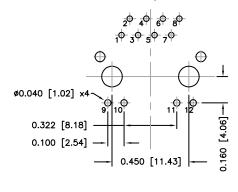


Single Port FastJacks™ LED Options

HALO is pleased to offer our complete line of single port Integrated RJ-45 connectors with integrated LED's. All HFJ11 and HFJT1single port HALO FastJacks, are available with several LED options. To specify the LED function simply add the corresponding suffix "–Lxx" to any HALO HFJ11 or HFJT1 part number, ie HFJ11-2450E-L11. Options include two standard footprints, color variations and current limiting function.

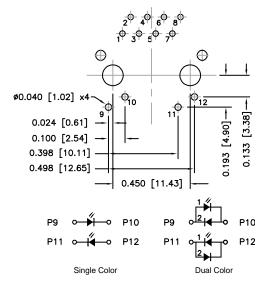


Inline Footprint

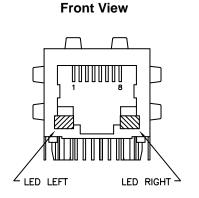




Staggered Footprint



LED Ordering Options				
Left LED Color	Right LED Color	Inline Footprint	Staggered Footprint	
Green	Green	L11	LS11	
Green	Yellow	L12	LS12	
Yellow	Green	L21	LS21	
Green/Yellow ²	Green/Yellow ²	L55	LS55	
Green/Yellow ²	Yellow/Green ²	L56	LS56	
Green/Orange ²	Green/Orange ²	L77	LS77	
Green/Orange ²	Orange/Green ²	L78	LS78	



- 1. Typical LED forward voltage: 2.1Vdc @ 10mA.
- 2. The first color corresponds to LED1 in dual color option.
- 3. Current limiting LEDs are available. When using the V3 or V5 current limiting versions, external resistors are not required. Choose the proper voltage according to the application. Please contact the factory for specifications.
- 4. Dimensions: Inch [mm]



FastJack™ Selector Guide

10BASE-T

		FastJack™ Part Number
Vendor	Silicon P / N	Tab Down
AMD	Am79C984A, 985, 988A, 989	HFJ11-1081ERL
Cirrus Logic	CS8900-CQ/IQ, CS8920, CS8904-CM5	HFJ11-1043ERL
Cirrus Logic	CS8900-CQ3/IQ3, CS8904-CM3	HFJ11-1041ERL
Intel	LXT901/1A, 907/7A, LXT914/915	HFJ11-1043ERL
Intel	LXT905, LXT908	HFJ11-1075ERL
LSI	80C24/25	HFJ11-1066ERL
NSC	DP83907, DP83953	HFJ11-1086ERL
RealTek	RTL8019	HFJ11-S101ERL
SMSC	LAN91C95/96 (5V)	HFJ11-S101ERL
SMSC	LAN91C96 (3.3V)	HFJ11-S114ERL
Ubicom	IP2022	HFJ11-S114ERL