

FastJack™ Ganged 10BASE-T & 10/100BASE-TX RJ-45 Connectors



HALO is pleased to offer this complete line of ganged Integrated RJ-45 connectors. The FastJack™ series integrates the high performance of HALO magnetics into an industry standard connector design. The result is an extremely robust, IEEE802.3 compliant, solution. FastJacks™ are available for most 10BASE-T and 10/100BASE-TX IC's.

10BASE-T

FastJack™ P/N	Turns Ratio		Pri Inductance (µH)		Cw/w	
	Circuit A	TX	RX	TX	RX	(pF Max)
HFJ1x-1041E	1:2.5		1:1	35 Min	200 Min	15
HFJ1x-1043E	1:1.41		1:1	140 Typ	140 Typ	15
HFJ1x-1066E	2:1		1:1	150 Min	150 Min	10
HFJ1x-1075E	1:2		1:1	25 Typ	140 Typ	15
HFJ1x-1081E	1:1		1:1	100 Typ	100 Typ	9
HFJ1x-1086E	1:2		1:1	50 Min	200 Min	11

(Replace "x" with 2 or 4 to specify dual or quad port connectors)

10/100BASE-TX

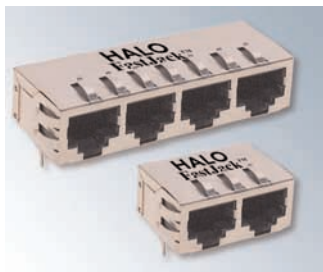
FastJack™, Full Flexibility Schematics		Turns Ratio	
Circuit C	Circuit D	TX	RX
HFJ1x-2250E	HFJ1x-2450E	1:1	1:1
HFJ1x-2220E	HFJ1x-2420E	2:1	1:1
HFJ1x-2241E	HFJ1x-2441E	1:1.41	1:1
HFJ1x-2231E	HFJ1x-2431E	1.41:1	1:1
HFJ1x-2239E	HFJ1x-2439E	1.25:1	1:1

(Replace "x" with 2 or 4 to specify dual or quad port connectors)

High Frequency, CMR Chokes

FastJack™ P/N	Circuit	Turns Ratio
HFJ1x-LG1GE	E	1:1, 1:1, 1:1, 1:1

(Replace "x" with 2 or 4 to specify dual or quad port connectors)

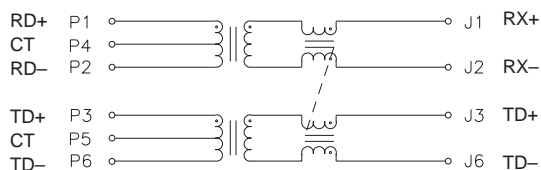


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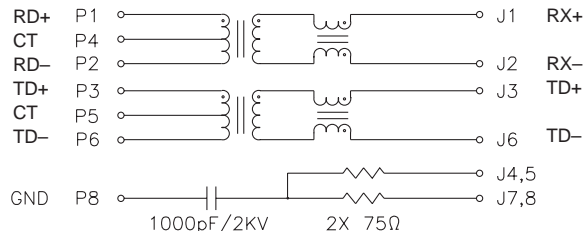


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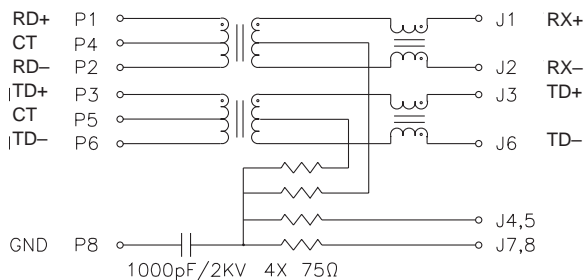
**Circuit A
10BASE-T**



**Circuit C
10/100 BASE-TX**



**Circuit D
10/100BASE-TX**



**Circuit E
CMR Chokes**



Please see individual data sheets for complete electrical specifications.

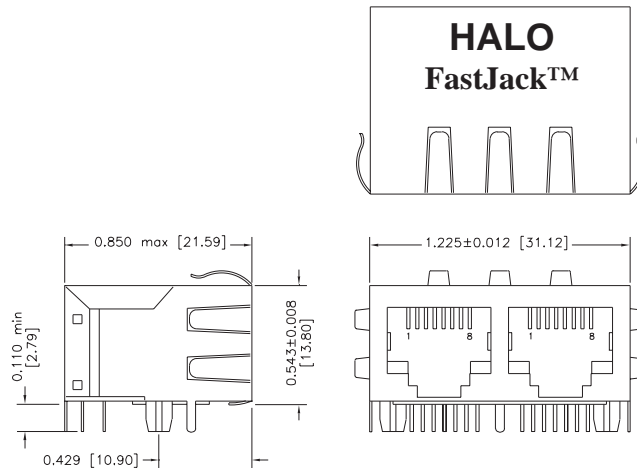


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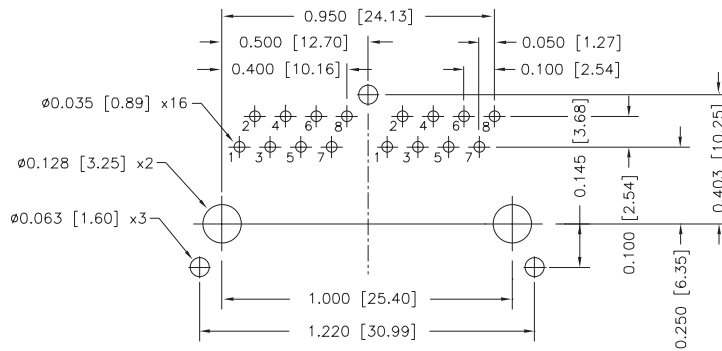


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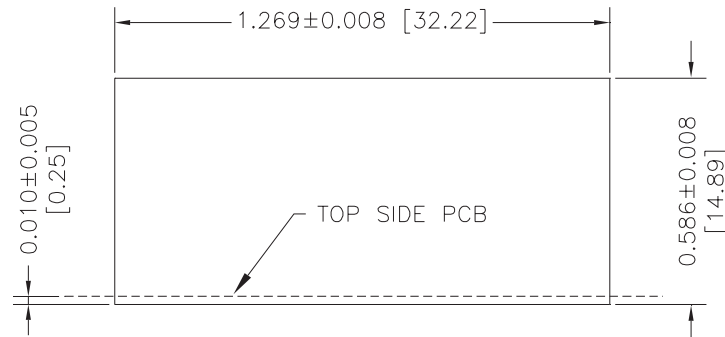
Dual Connectors



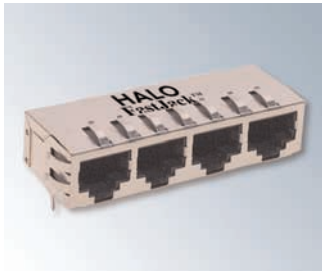
MECHANICAL DRAWINGS



RECOMMENDED PCB LAYOUT



RECOMMENDED PANEL CUTOUT

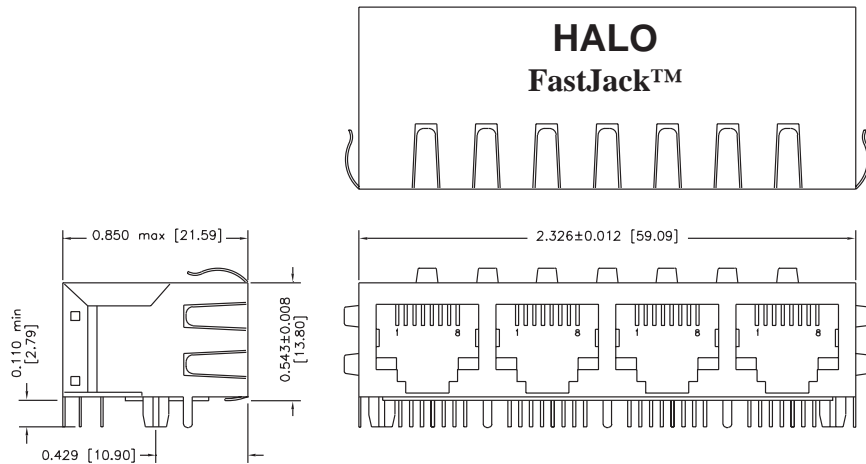


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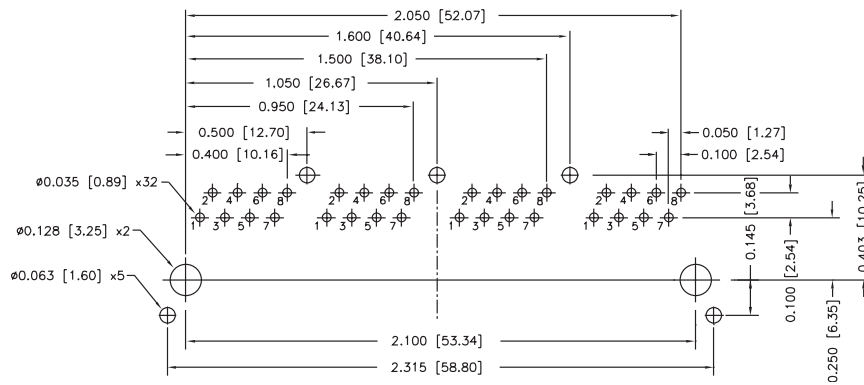


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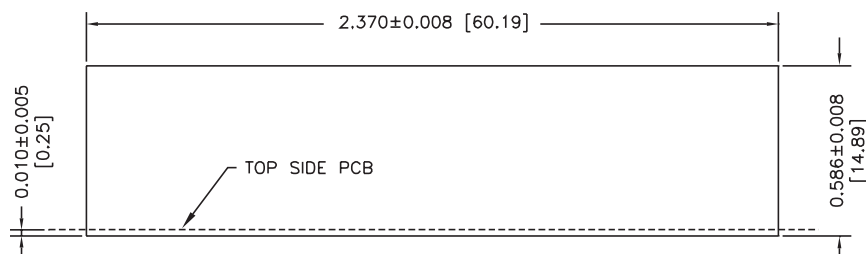
Quad Connectors



MECHANICAL DRAWINGS



RECOMMENDED PCB LAYOUT



RECOMMENDED PANEL CUTOUT

HALO offers a complete range of Integrated RJ-45 connectors. FastJacks™ are available for most Ethernet IC's. The HALO selector guide is provided to help the designer select the correct connector solution for the corresponding Ethernet IC.

10BASE-T

Vendor	Silicon P / N	FastJack™ Part Number		
		Single	Dual	Quad
AMD	Am79C984A, 985, 988A, 989	HFJ11-1081E	HFJ12-1081E	HFJ14-1081E
Cirrus Logic	CS8900-CQ/IQ, CS8920, CS8904-CM5	HFJ11-1043E	HFJ12-1043E	HFJ14-1043E
Cirrus Logic	CS8900-CQ3/IQ3, CS8904-CM3	HFJ11-1041E	HFJ12-1041E	HFJ14-1041E
Intel	LXT901/1A, 9077A, LXT914/915	HFJ11-1043E	HFJ12-1043E	HFJ14-1043E
Intel	LXT905, LXT908	HFJ11-1075E	HFJ12-1075E	HFJ14-1075E
LSI	80C24/25	HFJ11-1066E	HFJ12-1066E	HFJ14-1066E
NSC	DP83907, DP83953	HFJ11-1086E	HFJ12-1086E	HFJ14-1086E

10/100BASE-TX

Vendor	Silicon P / N	FastJack™ Part Number		
		Single	Dual	Quad
AMD	79C873/4/5	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
AMD	79C973/5	HFJ11-2441E	HFJ12-2441E	HFJ14-2441E
Broadcom	AC101, AC104, AC205/6/7/8	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
Broadcom	BCM5201/3/5, BCM 5208/16/18	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
Broadcom	BCM5221/22/26/28, BCM5315/17/18	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
Crystal	CS8952	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
IDT	QS6611	HFJ11-2431E	HFJ12-2431E	HFJ14-2431E
IDT	QS6612	HFJ11-2439E	HFJ12-2439E	HFJ14-2439E
Intel	82558/9, LXT970/1/2/3, LXT976X/978X	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
Intel	LXT974A, LXT975A, LXT980/2/3	HFJ11-2420E	HFJ12-2420E	HFJ14-2420E
Kendin	KS8761	HFJ11-2431E	HFJ12-2431E	HFJ14-2431E
Kendin	KS8737, KS8995/E, KS8993/7/9	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
LSI	80C220/80C221	HFJ11-2420E	HFJ12-2420E	HFJ14-2420E
LSI	80223/84220	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
Marvell	88E3061/81, 88E6050/1/2	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
NSC	DP83223/83843/83846A/83847	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
SMSC	LAN91C111	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
ST Micro	STE10/100A, STE100P	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
ST Micro	STE400P, STE800P*	HFJ11-2431E	HFJ12-2431E	HFJ14-2431E
TDK	78Q2120/1	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E
T.I.	TNETE2101	HFJ11-2450E	HFJ12-2450E	HFJ14-2450E

* Consult factory for Auto-MDIX Applications

07/02