

PULSEJACK™ THROUGH HOLE, TAB, UP RJ-45 JACK WITH INTEGRATED MAGNETICS AND LINE SIDE PROTECTION

For T1/E1/CEPT/ISDN-Pri Applications



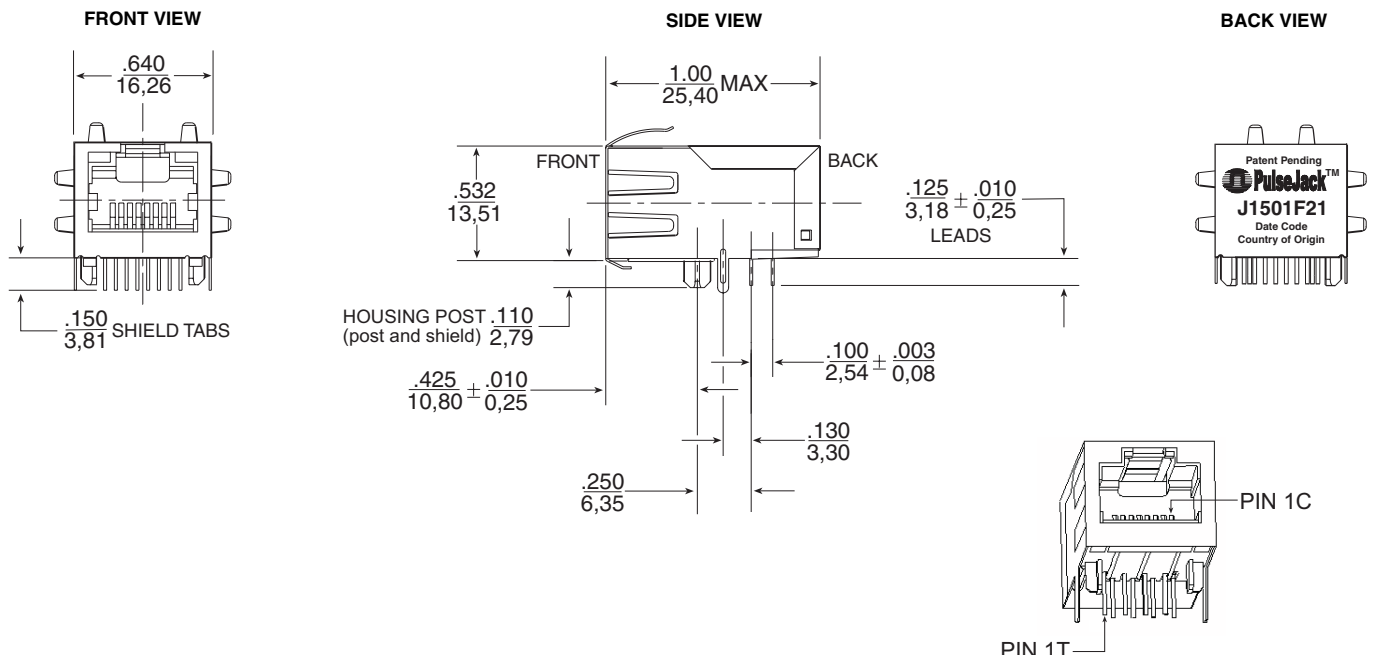
- ➊ Designed for PMC-Sierra PM 4351/4354 T1/E1 Short Haul applications
- ➋ 1x1, shielded PulseJack will provide surge protection within Telecom access and transmission equipment
- ➌ Patented InterLock Base construction for high reliability
- ➍ High performance for maximum EMI suppression
- ➎ Minimum 1500 Vrms isolation

Electrical Specifications @ 25°C — Operating Temperature 0°C to +70°C

Part Number	Turns Ratio (Pri:Sec ±2%)		OCL (mH MIN)	Cw/w (pF MAX)	LL (µH MAX)	DCR Pri (Ω MAX)	Primary Pins
	Transmit	Receive					
J1501F21	1:2.42	1:2.42	1.2	100	0.6 & 0.6	0.7 & 0.7	1T - 2T, 4T - 5T

Notes: Different electrical and mechanical specifications can be accommodated. Contact Pulse Applications Engineering at (858) 674-8100 for more information.

Mechanical



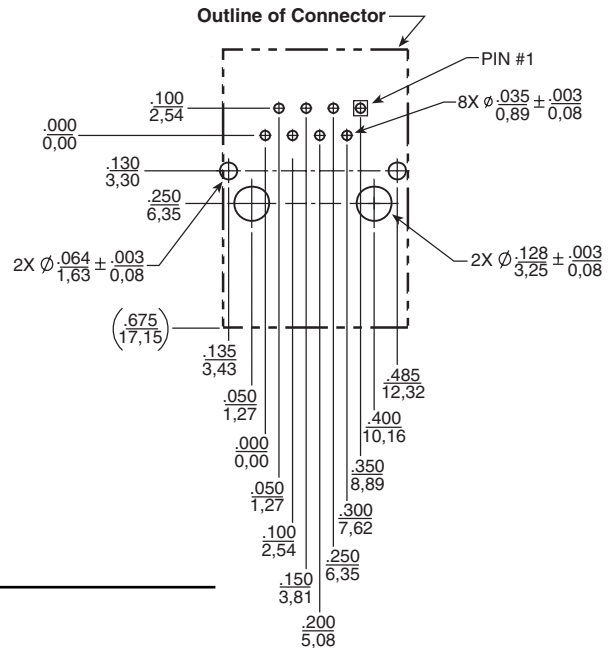
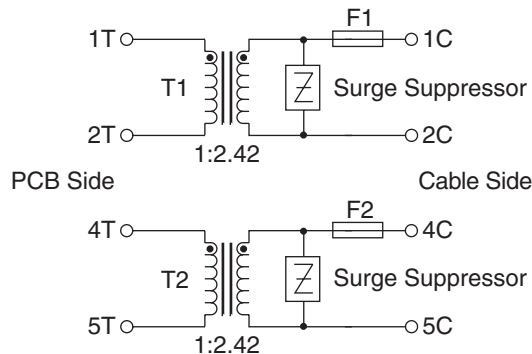
PULSEJACK™ THROUGH HOLE, TAB UP RJ-45 JACK WITH INTEGRATED MAGNETICS AND LINE SIDE PROTECTION

For T1/E1/CEPT/ISDN-Pri Applications



Suggested PCB Layout (Viewed from Component Side)

Schematics



Advantages of the PulseJack Modules

Increased Reliability

Pulse developed a patented method for ensuring the quality, consistency, and connection integrity of encapsulated coils and other three-dimensional electronic components. The InterLock Base consists of an internal plastic carrier that holds the coil firmly in place and provides precisely engineered "lead-channels" to lock together the lead wires and the leadframe pins. All of the InterLock Base interconnections are then simultaneously dip soldered, providing for both efficiency and uniformity for best common mode rejection and crosstalk.

Higher Manufacturing Yields

Because of this Pulse patented higher reliability method, there is less of a chance of opens and shorts, thus providing higher yields.

Consistent Electrical and Magnetic Performance

- With internal magnetics specifically oriented on all parts, there are more consistent readings on all functional tests. This is optimized for best crosstalk, common mode rejection and return loss.
- With the selection of common mode material and winding techniques, common mode noise rejection maintains integrity to higher frequencies.
- Multiple tabs around shield-to-ground, shield-to-chassis, and shunt noise to ground for improved EMI suppression.

Materials

Housing: Thermoplastic - UL94V-0

Contacts: Phosphorous Bronze, Nickel underplating and selective gold plating 50 μ inches max.

PCB Pins: Phosphorous Bronze with 120 μ inches Sn90/Pb10 over 50 μ inches Nickel.

Shield: Cartridge Brass with 10-20 μ inches Nickel over 10-20 μ inches Nickel.

Part Number Format: J X XXX X X X

Example PulseJack Part Number:

J	1	501	F	2	1
Connector Products	Platform "1" through hole, locking tab up 8 pin, single.	Internal Magnetics Additional electrical specifications can be accommodated. Contact Pulse Applications Engineering at (858) 674-8100 for more information.	Shield Type "F" is standard shield type. Additional mechanical specifications can be accommodated. Contact Pulse Applications Engineering at (858) 674-8100 for more information.	EMI Tabs "0": no tabs "2": 2 tabs top 2 tabs each side 2 tabs bottom	Number of Ports "1" single port

For More Information :

UNITED STATES (Worldwide) 12220 World Trade Drive San Diego, CA 92128 U.S.A. http://www.pulseeng.com TEL: 858 674 8100 FAX: 858 674 8262	UNITED KINGDOM (Northern Europe) 1 & 2 Huxley Road The Surrey Research Park Guildford, Surrey GU2 5RE United Kingdom TEL: 44 1483 401700 FAX: 44 1483 401701	FRANCE (Southern Europe) Zone Industrielle F-39270 Orgelet France TEL: 33 3 84 35 04 04 FAX: 33 3 84 25 46 41	SINGAPORE (Southern Asia) 150 Kampong Ampat #07-01/02 KA Centre Singapore 368324 TEL: 65 287 8998 FAX: 65 280 0080	TAIWAN, R.O.C. (Northern Asia) 3F-4, No. 81, Sec. 1 HsinTai Wu Road Hsi-Chih, Taipei Hsien Taiwan, R.O.C. Tel: 886 2 2698 0228 FAX: 886 2 2698 0948	HONG KONG (Great China) 19/F, China United Plaza 1008 Tai Nan West Street Cheung Sha Wan, Kowloon Hong Kong, China TEL: 852 2788 6588 FAX: 852 2776 1055	DISTRIBUTOR
---	---	--	---	--	---	--------------------

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.