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

For T1/E1/CEPT/ISDN-Pri Applications

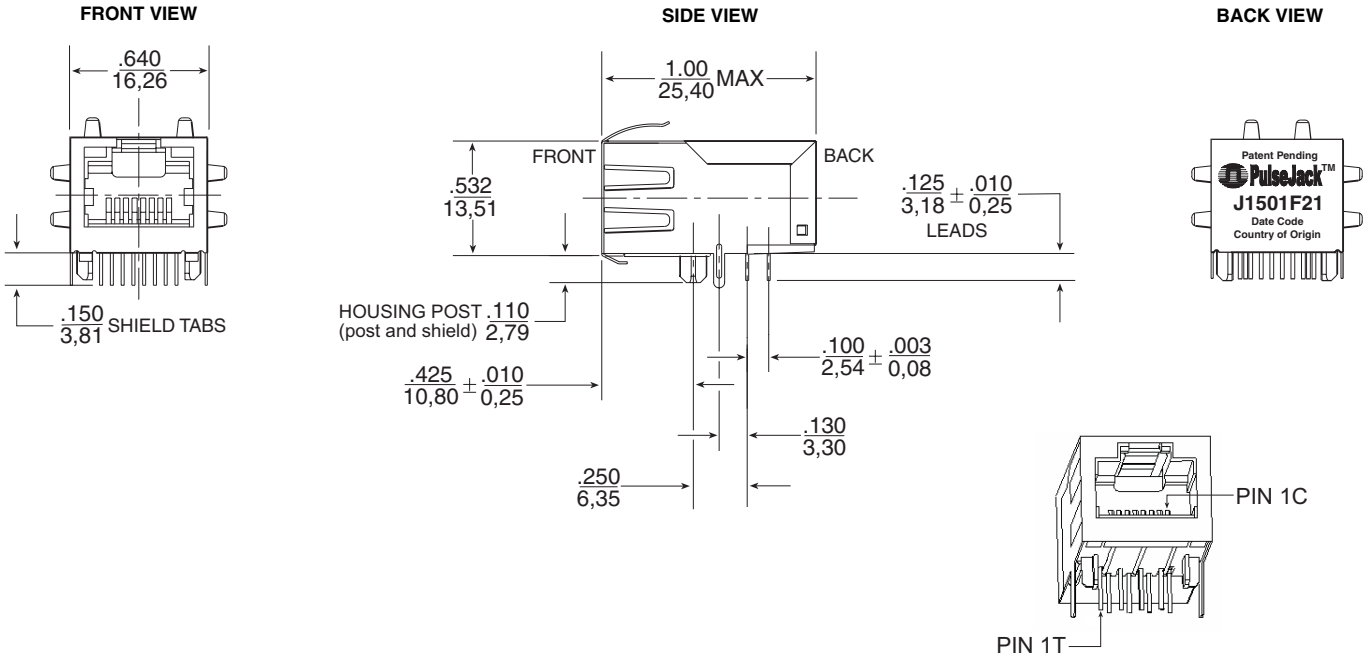
- Designed for PMC-Sierra PM 4351/4354 T1/E1 Short Haul applications
- 1x1, shielded PulseJack will provide surge protection within Telecom access and transmission equipment
- Patented InterLock Base construction for high reliability
- High performance for maximum EMI suppression
- Minimum 1500 Vrms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



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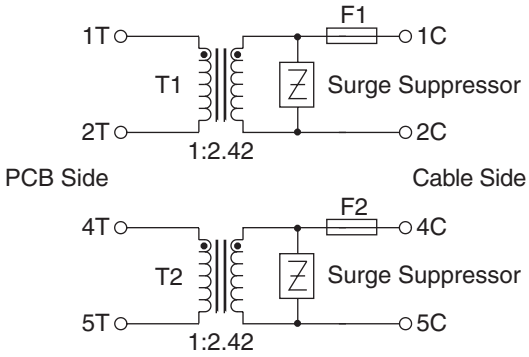
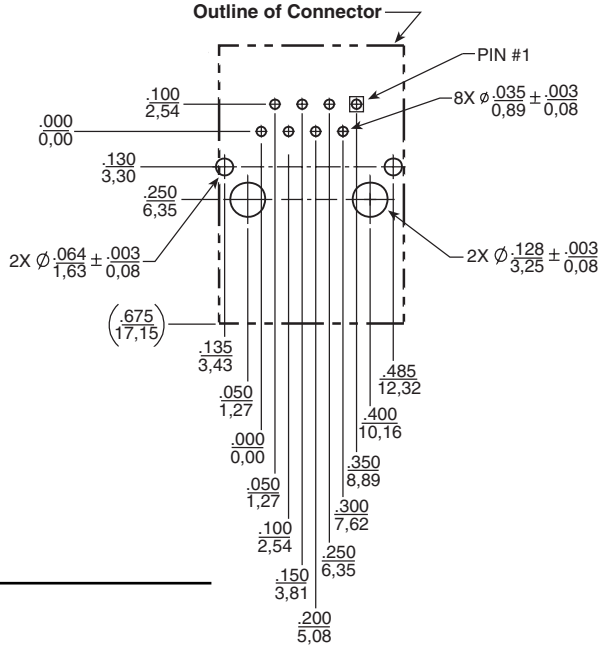
For T1/E1/CEPT/ISDN-Pri Applications

Pulse
A TECHNITROL COMPANY

Schematics



Suggested PCB Layout
(Viewed from Component Side)



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