# **Integrated Magnetic Jacks**

# ADAM TECH

## ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS



#### **INTRODUCTION:**

Adam Tech MTJ series RJ-45 connectors with integrated magnetics are designed to support Base 10, 100 and 1000-T applications such as hubs, routers, ADSL modems, and ATM transmission equipment. The integrated magnetics allows the design engineer to save PC board real-estate and lower the total part count per system. This series meets all applicable specifications for CAT 5, 5e, 6 and IEEE 802.3. The USB model meets all applicable USB 2.0 specifications. All configurations are available with optional LED's.

#### **FEATURES:**

Single, stacked and ganged configurations available All products have a full metal shield to guard against electromagnetic interference. Hi-Temp option availableAll products are fully lead free and RoHS compliant

#### **MATING PLUGS:**

Adam Tech modular telephone plugs and all industry standard telephone plugs.

#### **SPECIFICATIONS:**

#### **MATERIAL:**

Insulator: PBT, glass filled, rated UL94V-0

Insulator Color: Black

Contacts: Phosphor Bronze or Brass Shield: Copper Alloy, Nickel or Tin plated

#### **CONTACT PLATING:**

Gold over Nickel underplate on contact area, Tin over Copper underplate on solder tails.

#### **ELECTRICAL:**

Operating Voltage: 150V AC Current Rating: 1.5 Amps Max. Contact Resistance: 20 mΩ Max. Insulation Resistance: 500 M $\Omega$  Min.

Dielectric Withstanding Voltage: 1500V AC for 1 Minute

DC resistance: 1.2 Ohms Max.

Interwinding capacitance: 35pF @ 1MHz Insertion loss: 100KHz to 80MHz = -1.1dB Min. Return loss: 1MHz to 30MHz = -18dB Min.

30MHZ to 80MHz = -12dB Min.

Rise time: 30nS Max.

Cross talk: 1MHz to 100MHz = 40dB TYP.

Common to Common mode Attenuation: 35dB TYP.

#### **MECHANICAL:**

Insertion force: 8 Contacts: 22.5N

10 Contacts: 24.5N Temperature Rating:

Operation Temperature: -40°C ~ +85°C

#### **PACKAGING:**

Anti-ESD plastic trays or tubes

#### **SAFETY AGENCY APPROVALS:**

UL Recognized File no. E224049



















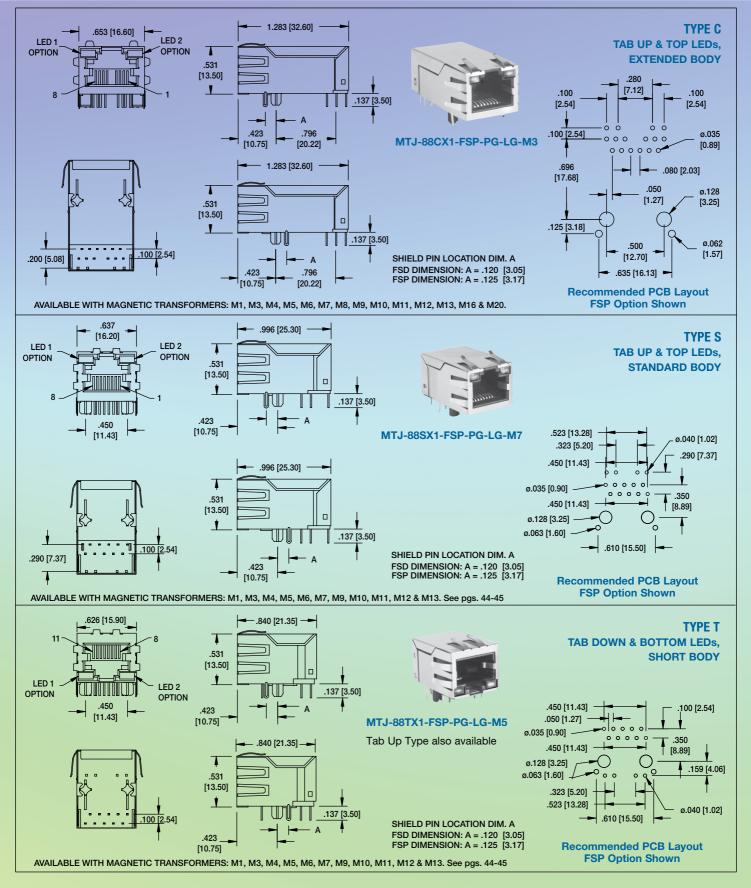






## **INTEGRATED MAGNETICS JACK**

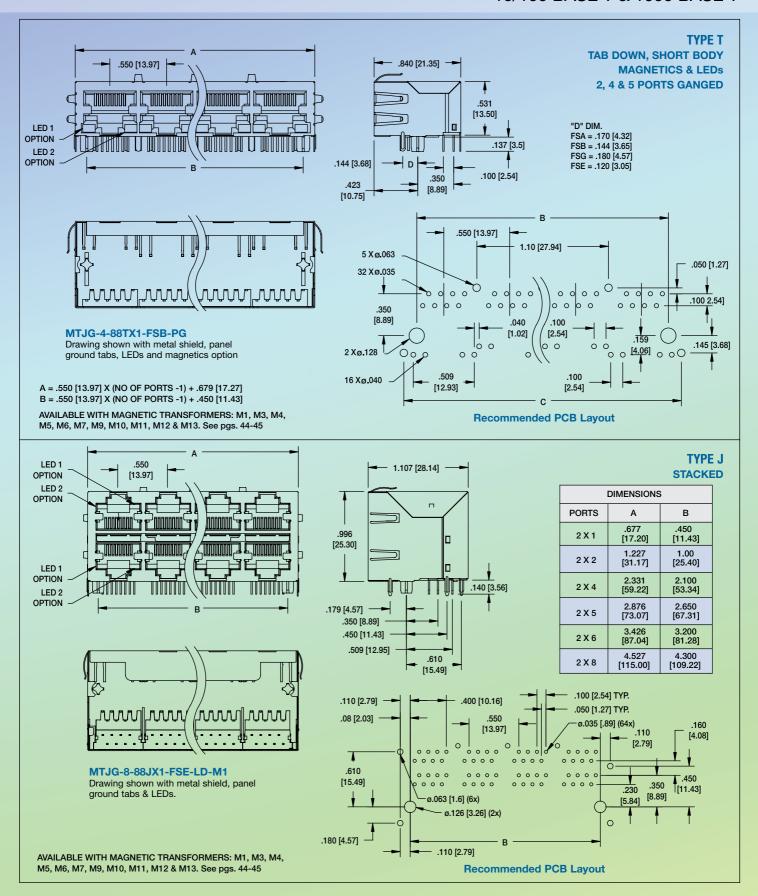
INTEGRATED MAGNETICS & LEDS 10/100 BASE T & 1000 BASE T





## **INTEGRATED MAGNETICS JACK**

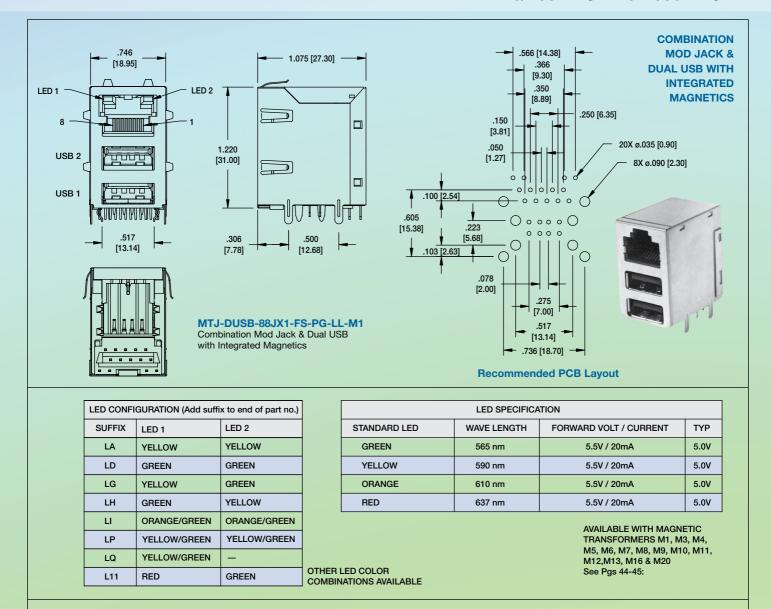
WITH INTEGRATED MAGNETICS & LEDs 10/100 BASE T & 1000 BASE T



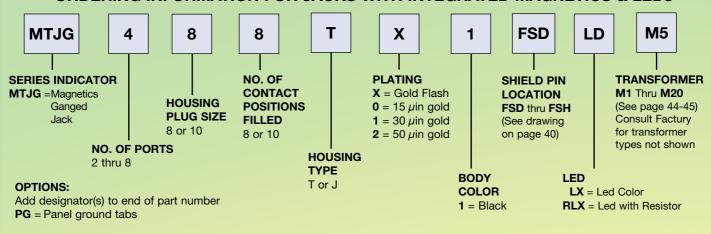


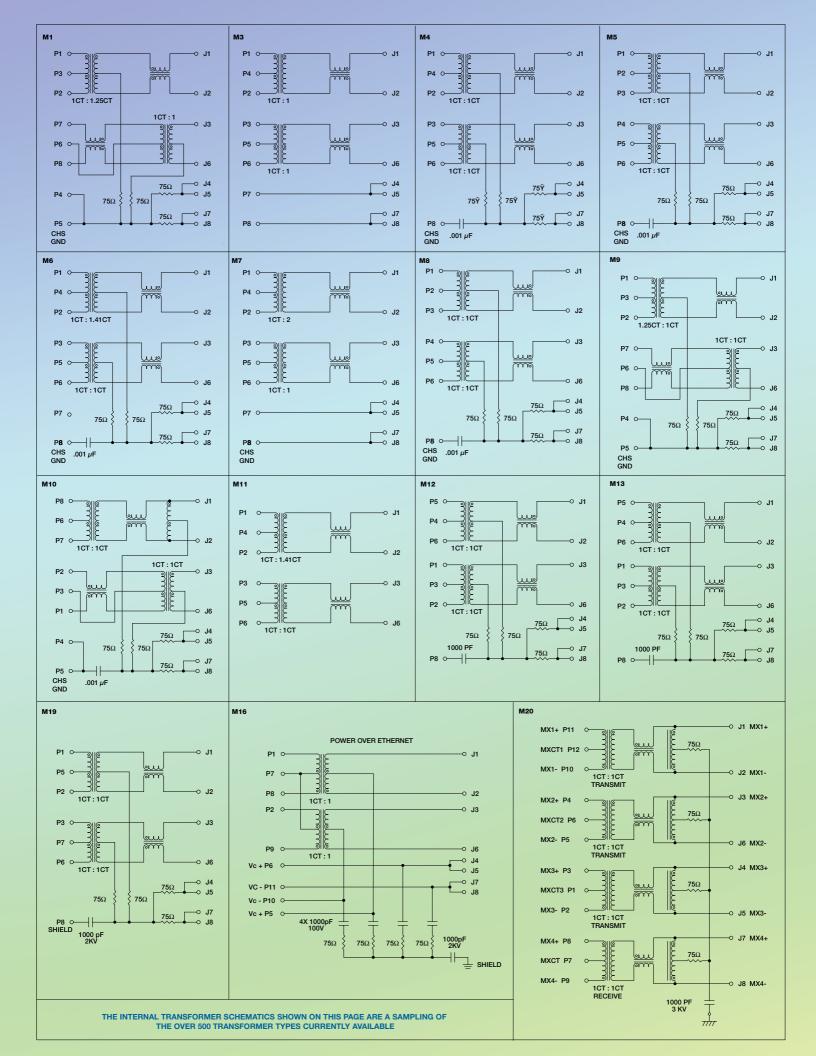
## **INTEGRATED MAGNETICS JACK**

WITH INTEGRATED MAGNETICS & LEDs 10/100 BASE T & 1000 BASE T



# ORDERING INFORMATION FOR JACKS WITH INTEGRATED MAGNETICS & LEDS















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**Adam Tech** is pleased to provide you with our full line brochure in our third decade of business.

It is our continuing goal to offer a wide range of connectors and cable assemblies from our Taiwan and China manufacturing facilities with one simple promise:

We will provide you with

the **Highest Quality Product** with the **Best Service Available** at the **Lowest Possible Price**.



