

ADAM TECH

INTERCONNECTS



RJ45 MODULAR JACKS WITH MAGNETICS (ICM's)



FEATURES & BENEFITS

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 available All 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 MΩ 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 & CSA Certified, File no. E224049



Networking



Embedded Computing



Switches



M2M Communications



Routers



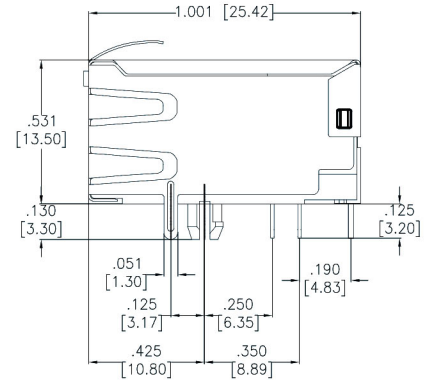
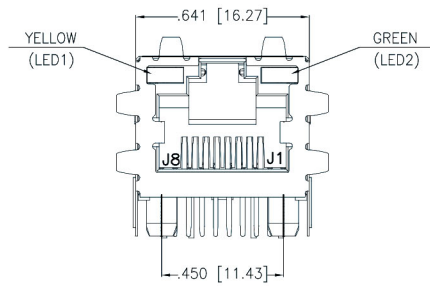
Peripherals



BODY TYPES AND STYLES

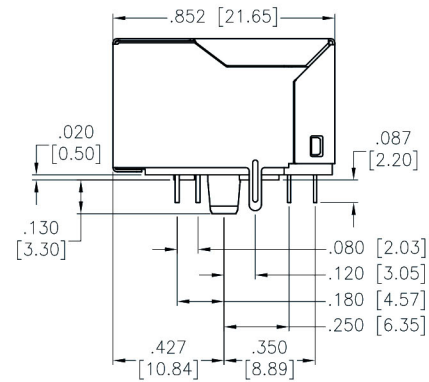
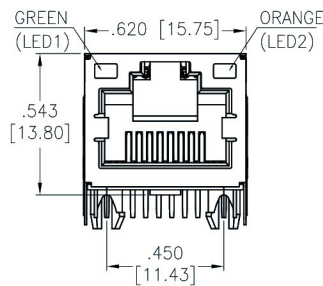
S BODY

Tab Up, Top LED's,
Standard Length Body



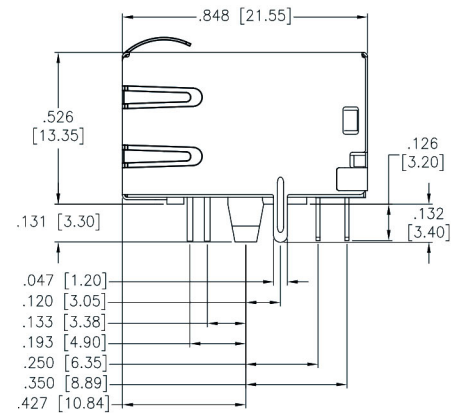
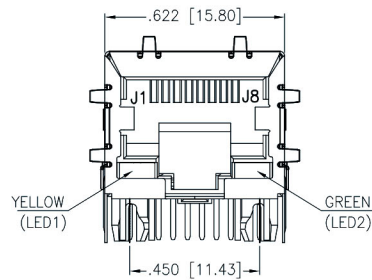
TU BODY

Tab Up, Top LED's,
Short length Body



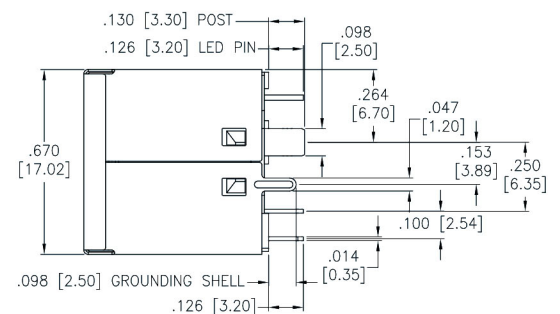
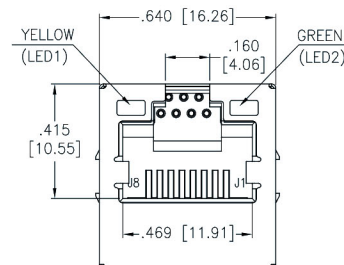
T BODY

Tab Down, Bottom LED's,
Short length Body



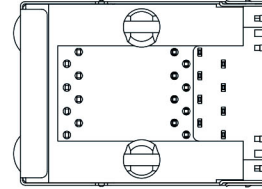
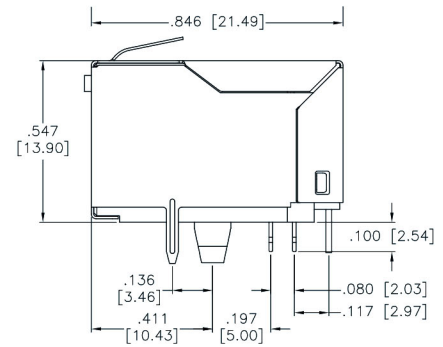
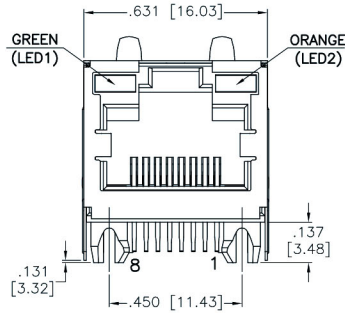
A BODY

Top Entry, Tab Up,
LED's

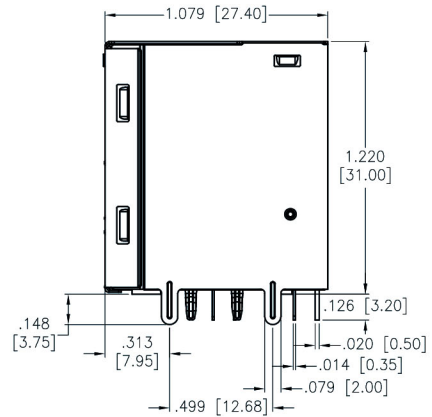
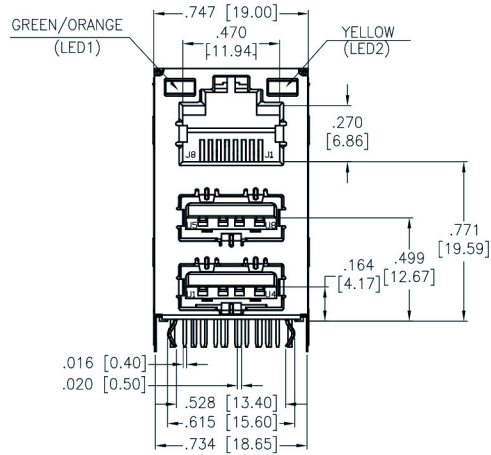


BODY TYPES AND STYLES

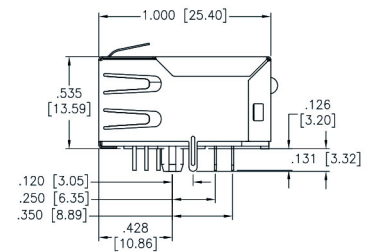
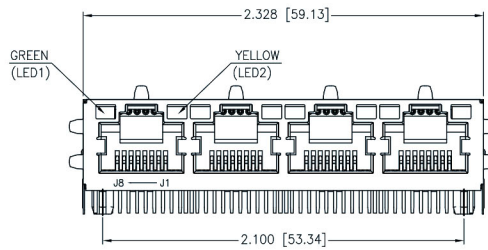
CAT6 1GB & CAT6A 10GB
High Data Transfer Style



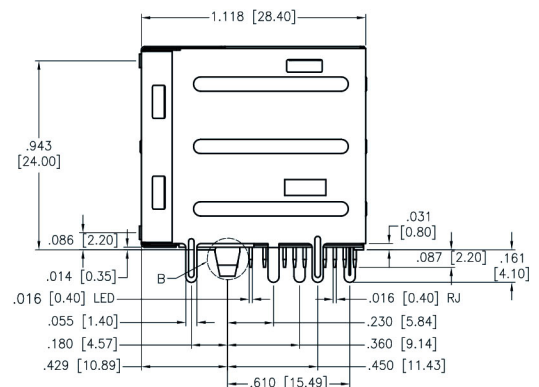
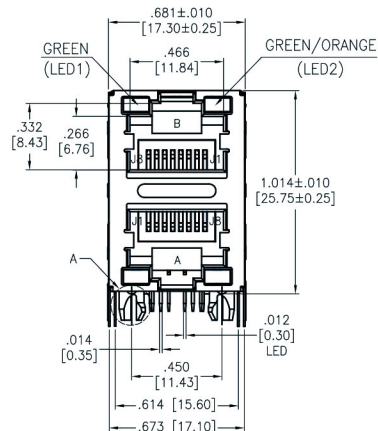
RJ45 / USB
Stacked Combo with
Transformer



Ganged Styles



Dual Row Ganged



TRANSFORMERS & CONFIGURATIONS

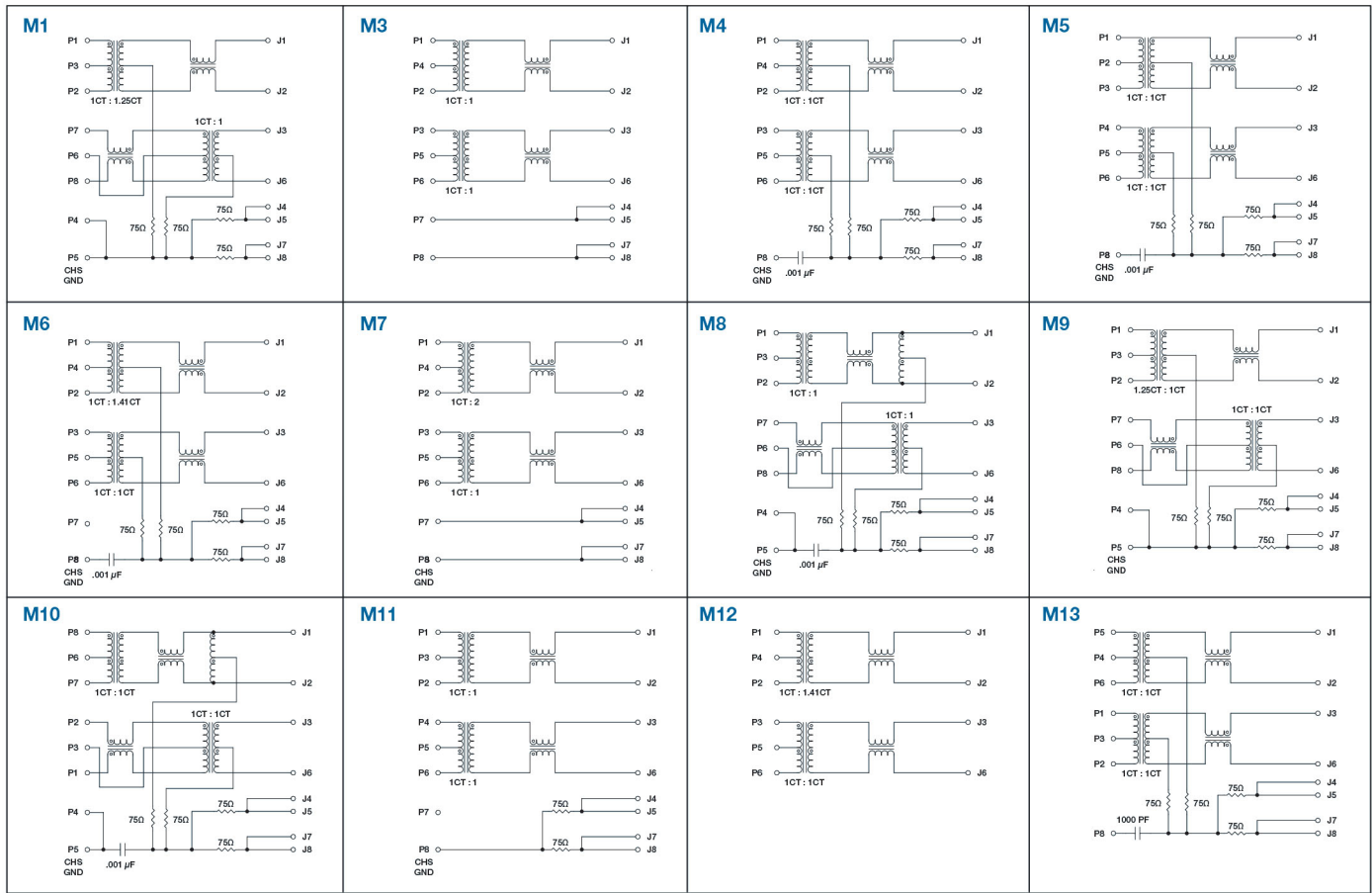
Adam Tech offers over 250+ standard transformer configurations. Our RJ45 production facility has invested in automated winding machines to help ensure speed, accuracy, and low cost for assembly.

We can cross and offer nearly any transformer configuration required.

On the next page are some of our most popular configurations. If you do not see the style you need, please send us the schematic and we'll make it for you!

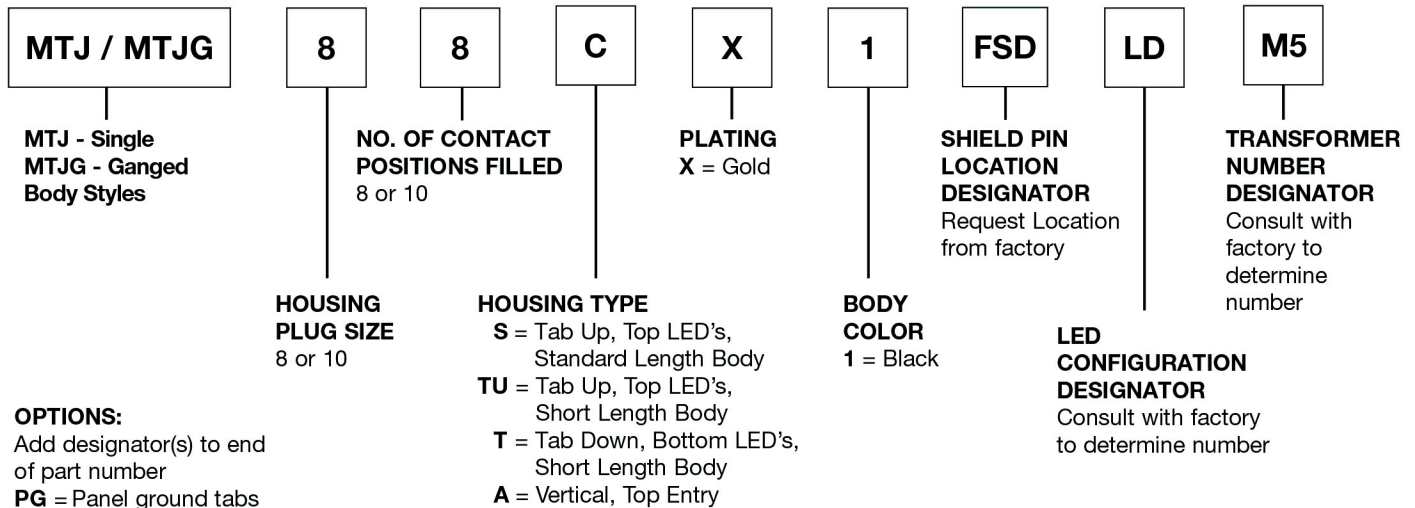


POPULAR TRANSFORMER CONFIGURATIONS



PART NUMBER CONSTRUCTION

MAGNETICS JACKS ORDERING INFORMATION



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