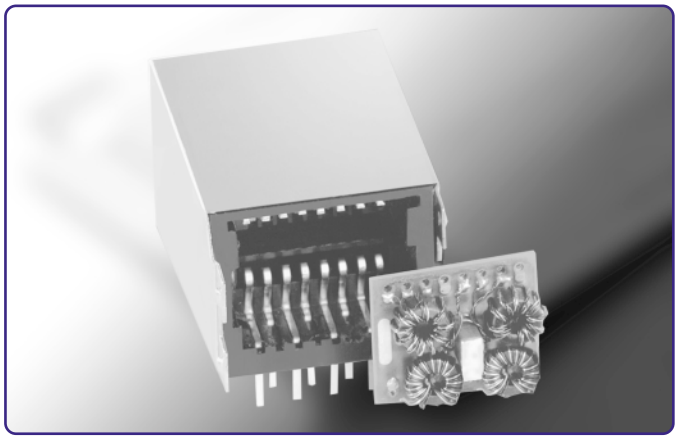


GIS Series Modular Jack With Integrated Magnetics

Features

- Identical Form Factor as Standard Jacks
- Complete Magnetic Options: Transformers, Chokes, Capacitors, and Termination Resistors
- Common Mode Choke & 10/100 Base-T Modules
- Enhanced Shield Options Available
- Complete Bob Smith Termination Included
- Conforms to IEEE 802.3
- Custom Magnetic Options Available
- CSA/NRTL Certified File No. LR78160

Performance Specifications

Materials and Finish

Housing Material
Glass Filled, UL94V-0 Rated, Black Color

Shield
Copper Alloy, Nickel Plated

Contact Material
Phosphor Bronze

Electrical Characteristics

Insulation Resistance
500 Megohms Min

Dielectric Withstanding Voltage
1000 Volt RMS for 1 Minute

Contact Resistance
50 Milliohms Max

Current Rating
1.5 Amps

Ordering Information

GIS	–	1	8	8	S1	–	9025
Series		No. of Ports	Size of Ports	No. of Contacts	Shield		Magnetic Package

Series
GIS - Right Angle Integrated Modular Jack

Number of Ports
1

Size of Ports
8 - 8 Positions

Number of Contacts
8 - 8 Contacts

Single Shield Options
S1 - Fully Shielded, 3.05 Ground Pin Spacing
S9 - Fully Shielded, 3.05 Ground Pin Spacing, with Top and Side Ground Tabs

Magnetic Packages*
10/100 Base-T Connector Modules
9001-9006 - 4 Core Module, Cable Side Module
9025-9030 - 5 Core Module, Cable Side Module
9075 - Common Mode Choke

*Contact Factory for Other Available Magnetic Options

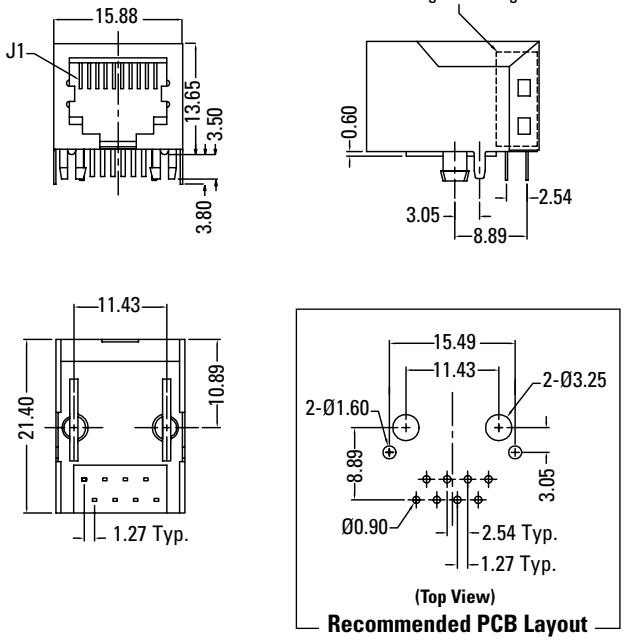
Plating Options

Designator	Plating Description
Standard	Contacts are Plated with 0.0001 Nickel, Selective Plating 0.000015 Gold on Contact Area

GIS Series Dimensions

Dimensions in mm

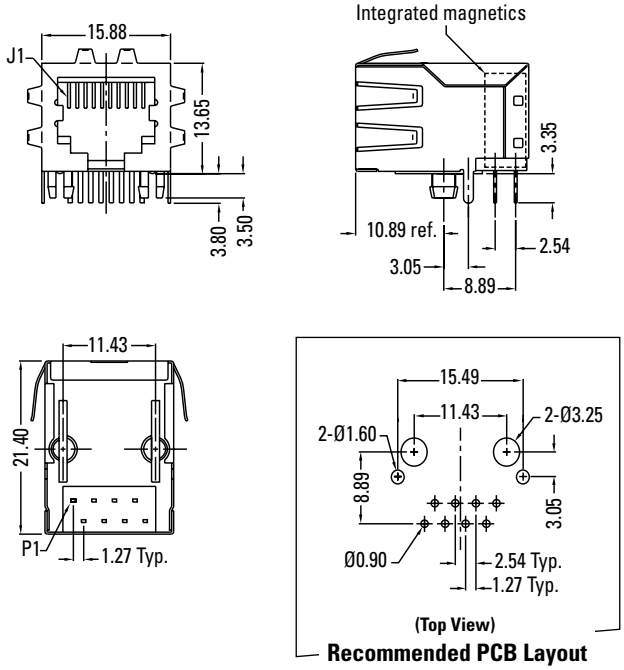
S1-Fully Shielded Single



GIS Series Dimensions

Dimensions in mm

S9-Fully Shielded with Top and Side Grounding Tabs



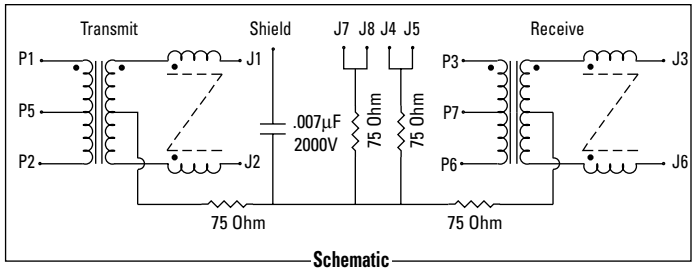
GIS Series Magnetic Package Options

9001-9006 – 4 Core Module

OCL = 350 µH minimum
Crosstalk = -35 dB minimum @ 1-100 MHz

Electrical Parameters @ 25°C							
Magnetics Designator	**Turns Ratio*** (±5%)	**Insertion Loss** (dB Max.)		**Return Loss** (dB Min.)		**CMRR** (dB Min.)	
	Xmit/Rcv	1-80 MHz	100 MHz	1-30 MHz	60-100 MHz	1-100 MHz	200 MHz
9001	1:1 / 1:1	-1	-1.5	-20	-15	-30	-20
9002	1.25:1 / 1:1	-1	-2.0	-20	-15	-30	-20
9003	1.36:1 /1:1	-1	-2.5	-20	-12	-30	-15
9004	1.41:1 / 1:1	-1	-2.5	-20	-12	-30	-15
9005	2:1 / 1:1	-1	-2.5	-20	-10	-30	-10
9006	1:1.41 / 1:1	-1	-2.5	-20	-10	-30	-10

*Turns Ratios are Chip Side: Cable Side / Chip Side: Cable Side



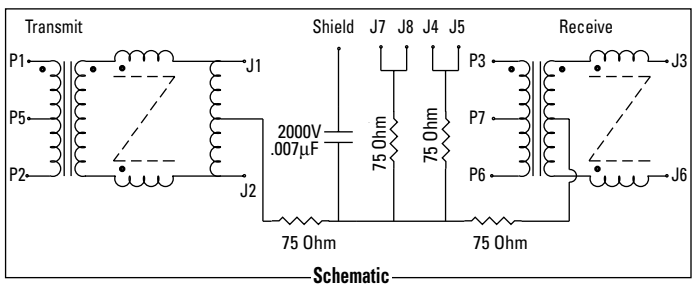
Schematic

9025-9030 – 5 Core Module

OCL = 350 µH minimum
Crosstalk = -35 dB minimum @ 1-100 MHz

Electrical Parameters @ 25°C							
Magnetics Designator	**Turns Ratio*** (±5%)	**Insertion Loss** (dB Max.)		**Return Loss** (dB Min.)		**CMRR** (dB Min.)	
	Xmit/Rcv	1-80 MHz	100 MHz	1-30 MHz	60-100 MHz	1-100 MHz	200 MHz
9025	1:1 / 1:1	-1	-1.5	-20	-15	-30	-20
9026	1.25:1 / 1:1	-1	-2.0	-20	-15	-30	-20
9027	1.36:1 /1:1	-1	-2.5	-20	-12	-30	-15
9028	1.41:1 / 1:1	-1	-2.5	-20	-12	-30	-15
9029	2:1 / 1:1	-1	-2.5	-20	-10	-30	-10
9030	1:1.41 / 1:1	-1	-2.5	-20	-10	-30	-10

*Turns Ratios are Chip Side: Cable Side / Chip Side: Cable Side

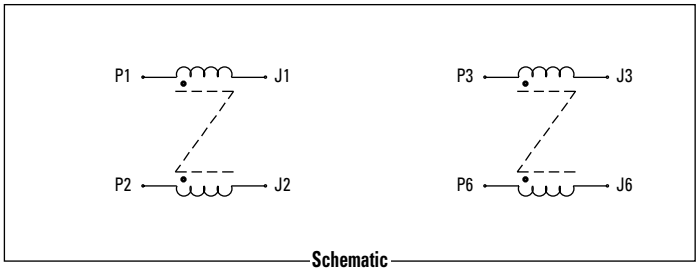


Schematic

GIS Series Magnetic Package Options

9075 – Common Mode Choke

Electrical Parameters @ 25°C							
Magnetics Designator	**DCR** (Ohm Max.)	**Common Mode Rejection** (dB Min.)					
		@1-10 MHz	@ 80 MHz	@100 MHz	@ 200 MHz	@ 300 MHz	@ 400 MHz	@ 500 MHz
9075	1	-40	-40	-30	-20	-20	-10	-10



Schematic

Please Visit www.kycon.com or E-mail: sales@kycon.com for Additional Magnetic Package Options