

## RJ45 WITH 10GB MAGNETICS SERIES

### HIGH SPEED 10GB PERFORMANCE

The XMJax is the most lead edge connector for 10 Gigabit Ethernet Transmission with 10GBase-T twisted pair cabling capability. These RJ45 10GB Magnetic connectors are available in for LAN or WAN applications and for use with existing CAT6, 6A or 7 or better UTP cable.

The XMJax series of connectors are designed to allow hardware engineers to easily implement 10GBase-T into their products.

### FEATURES:

- RJ45 Connector with 10Gigabit LAN Magnetics
- CAT6, 6A & 7 Fast Ethernet cable or better UTP
- Meet or Exceed IEEE 802.3/802.3an standard
- Internal magnetics are 100% electrically tested for Hi-Pot and functionality
- Internal magnetics options available
- Maximum EMI suppression

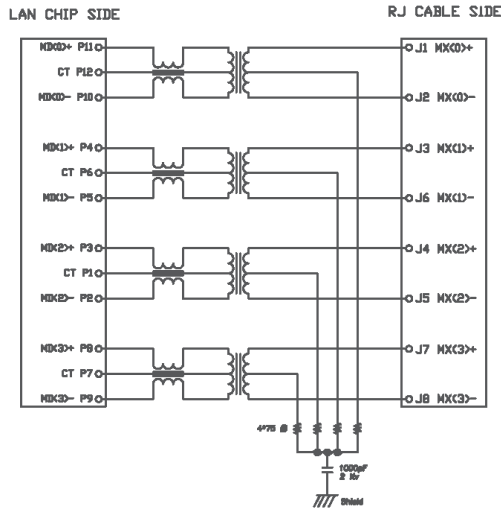


### GENERAL SPECIFICATION:

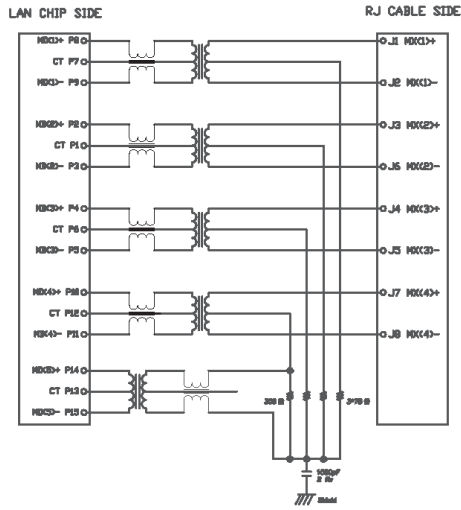
Product Type Features		Housing Related Features	
Tab Type	Tab Down	Material	LCP
PCB Mount Angle	Side Entry (Right Angle)	Housing Flammability	UL 94V-0
Number of Ports	1x1	Color	Black
Number of Positions	8	<b>Contact Features</b>	
Number of Contacts	8	Material	Phos-Bronze
PCB Mount Style	Through Hole	Contact Area Plating	Hard Gold
LED	With or Without	Solder Area Plating	Tin
Transformer	Integrated in Connector	<b>Magnetic Features</b>	
<b>Shielding Features</b>		Transformer Speed	10GB
Material	Copper Alloy	<b>Dimensions (mm)</b>	
Plating	Nickel	Length	24.13 or 28.58
EMI Fingers	All Side or Without	Width	17.78
Number of PCB Ground Tabs	2	Height	All Side or 11.30
Ground Pin Position (mm)	None		

## 10GB SCHEMATICS

### GB1:



### GB2:



## ELECTRICAL SPECIFICATIONS:

### 10G Mbps MHz Electrical Specification @25degree C

Insertion Loss				Return Loss			
1-5MHz	5-200MHz	200-400MHz	400-6000MHz	1-5MHz	5-200MHz	200-400MHz	400-6000MHz
1-5MHz	5-200MHz	200-400MHz	400-6000MHz	1-5MHz	5-200MHz	200-400MHz	400-6000MHz

Cross Talk	Cm to Dm Rejection	Cm to Cm Rejection			Hi Pot
100-500 MHz	1-500 MHz	1-100 MHz	100-300 MHz	300-600 MHz	Input to Output
-30dB Min	-30dB Min	-40dB Min	-35dB Min	-30dB Min	1500 VAC for 60 Seconds

## ORDERING INFORMATION:

PART NUMBER	DESCRIPTION
XMG-01G-X-GB1-XXX	RJ45 Tab Down 10Gigabit Magnetics, 8P, 12C, w/Light Pipe, Shielded, Through Hole
XMG-01GB-X-GB2-XXX	RJ45 Tab Down 10Gigabit Magnetics, 8P, 15C, w/Light Pipe, Shielded, Through Hole
XMH-01G-X-XXX-XXX	RJ45 Tab Up 10Gigabit Magnetics, 8P, 15C, w/Light Pipe, Shielded, Through Hole