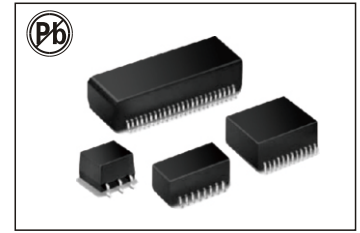


◆ 10/100 BASE-T MAGNETICS MODULES

LAN – 100SERIES



FEATURES:

- IEEE 802.3,ANSI X3.263
- SMT & Thru Hole available
- Miniature size

OPTIONS:

- Tape & Reel is Standard
- Custom design available

COMMON APPLICATIONS:

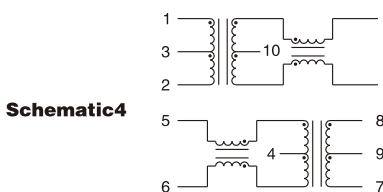
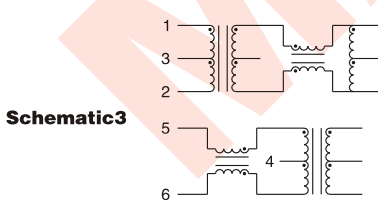
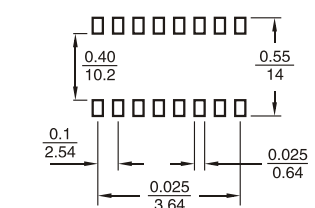
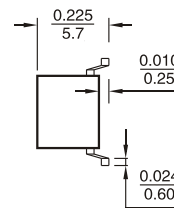
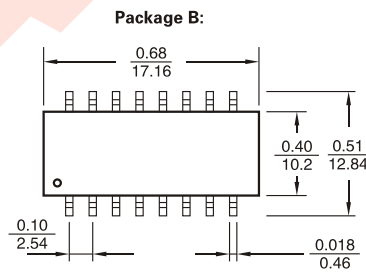
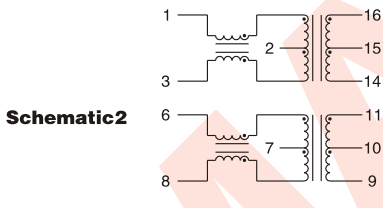
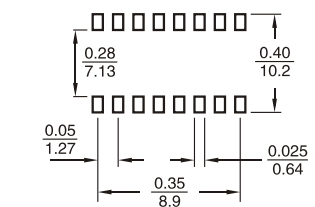
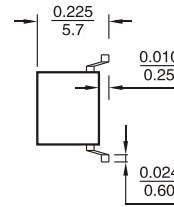
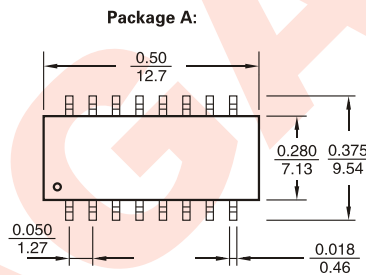
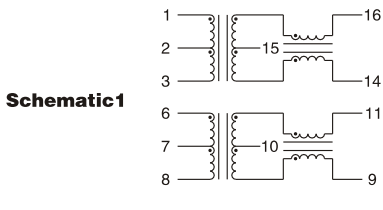
- 10/100 Base – T Single Port

STANDARD SPECIFICATIONS

Part Number	Turns Ratio $\pm 2\%$		Insertion Loss 1–100MHz (dB Max)	Cross Talk 0.1–100MHz (dB Min)	CMR 0.1–100MHz (dB Min)	Return Loss (dB Max)			SCH	Package
	Tx	RX				30MHz	50MHz	80MHz		
LAN-101	1CT : 1CT	1CT : 1CT	1.1	35	30	18	15	13	1	A
LAN-102	1CT : 1CT	1CT : 1CT	1.1	35	30	18	15	13	2	A
LAN-103	2CT : 1CT	1CT : 1CT	1.1	35	30	18	13	13	1	A
LAN-104	1.41CT : 1CT	1CT : 1CT	1.1	35	30	18	13	13	1	A
LAN-121	1CT : 1CT	1CT : 1CT	1.2	38	42	18	13	12	3	B
LAN-122	1CT : 1CT	1CT : 1CT	1.2	38	38	16	13	12	4	B
LAN-123	2CT : 1CT	1CT : 1CT	1.2	38	35	16	13	12	4	B
LAN-124	1CT : 1.41CT	1CT : 1CT	1.2	38	42	16	13	12	3	B
LAN-125	1CT : 1.41CT	1CT : 1CT	1.2	38	38	16	13	12	4	B

- Primary OCL Tx & Rx: 350 μ H Min @ Idc=8mA
- Hipot : 1500 VRMS

Dimension: Inch/mm

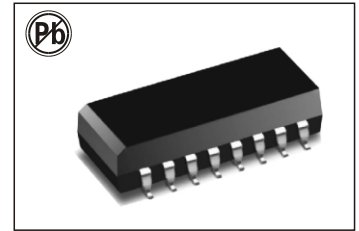


TECHNICAL INFORMATION:

- Soldering methods: Wave, Reflow
 - Operating Temperature: 0°C to 70°C
 - Storage Temperature: -55°C to 125°C
- Note: All specifications subject to change without notice.

◆ 10/100 BASE-T MAGNETICS MODULES

LAN-400



FEATURES:

- IEEE 802.3 Ethernet Compatible
- Quad Port
- Surface Mountable

OPTIONS:

- Tape & Reel is Standard
- Bulk upon request

COMMON APPLICATIONS:

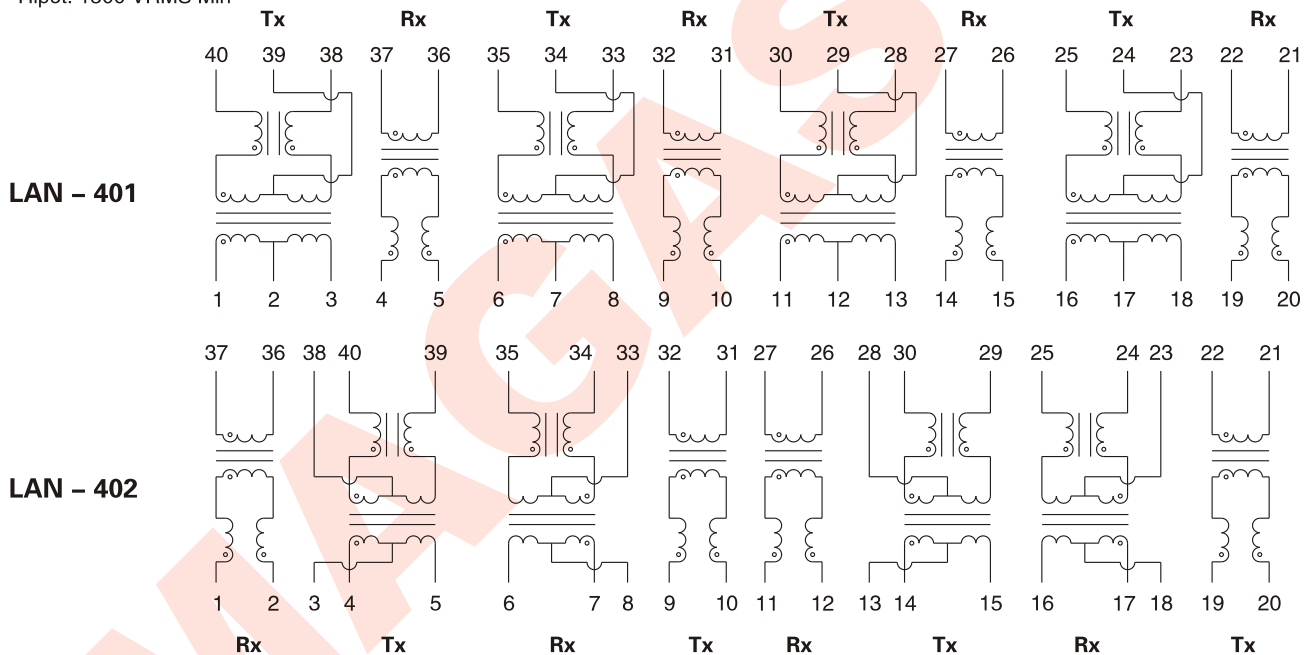
- Multiport Repeater & Ethernet Switching HUB

STANDARD SPECIFICATIONS

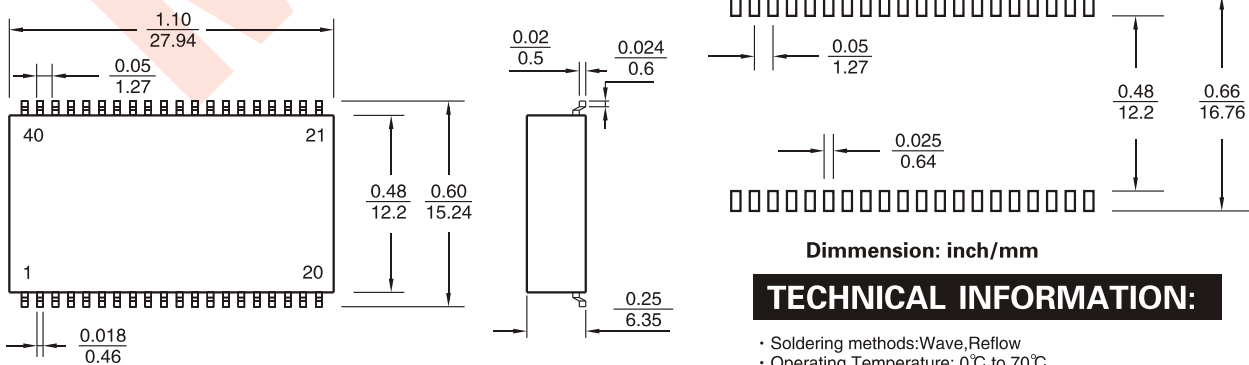
Part No.	Return Loss (dB Min @ 100 Ω)				CMR (dB Min)	Crosstalk (db Min)		Turns Ratio	
	0.5-30 Mhz	40 Mhz	50 Mhz	60-80 Mhz		0.1-100 Mhz	± 2% Max	Tx	Rx
LAN-401	18	15.5	13.6	12	40	38	1CT:1.41CT	1	1
LAN-402	18	15.5	13.6	12	40	38	1CT:1.41CT	1	1

Insertion Loss: -1.1 dB Max @ 1-100 MHz
Hipot: 1500 VRMS Min

Inductance: 350 μH Min @ Idc=8mA



Recommended Pod Layout



TECHNICAL INFORMATION:

- Soldering methods: Wave, Reflow
 - Operating Temperature: 0°C to 70°C
 - Storage Temperature: -55°C to 125°C
- Note: All specifications subject to change

LAN-500



FEATURES:

- IEEE 802.3 Compliant
- PCMCIA

OPTIONS:

- Tape & Reel is Standard
- Custom design available

COMMON APPLICATIONS:

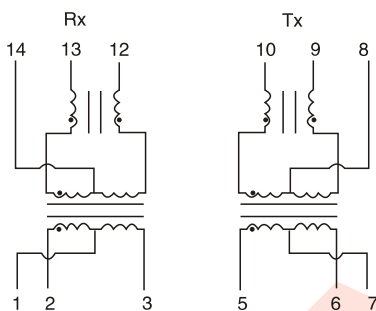
- PCMCIA LAN Card
- Type I & II Cards

STANDARD SPECIFICATIONS

Part Number	Turns Ratio $\pm 2\%$		Insertion Loss	Cross Talk	CMR	Return Loss(dB Min)				Schematic	Package
	Tx	Rx				1-100MHz (dB Max)	0.1-100MHz (dB Min)	0.1-100MHz (dB Min)	0.5-30MHz		
LAN-501	1CT:1CT	1CT:1CT	1.1	35	30	18	15	13	11	1	A
LAN-502	1.41CT:1CT	1CT:1CT	1.1	35	30	18	15	13	11	1	A
LAN-503	1CT:1CT	1CT:1CT	1.1	35	30	18	15	13	11	2	B
LAN-504	1.41CT:1CT	1CT:1CT	1.1	35	30	18	15	13	11	2	B

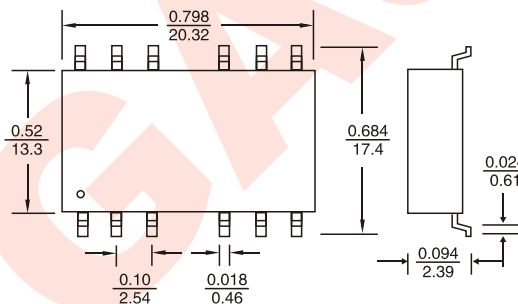
- Primary OCL Tx & Rx: 350 μ H Min @ Idc=8mA
- Hipot : 1500 VRMS

Schematic1(Ref Broadcom BCM5201 application)

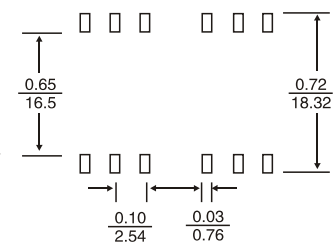


Dimension:Inch/mm

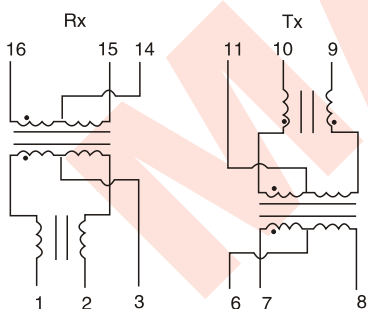
Package:A



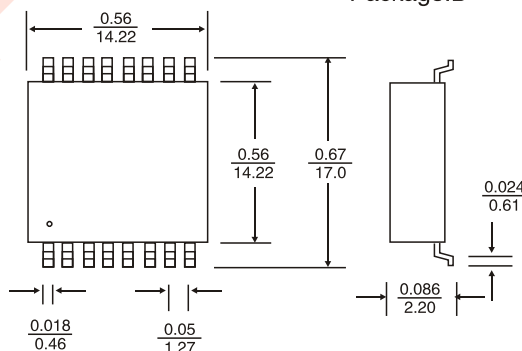
Recommended Pod Layout



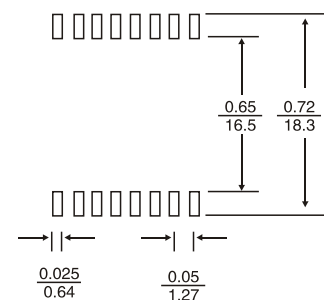
Schematic1(Ref Quality Semi QS6612 application)



Package:B



Recommended Pod Layout

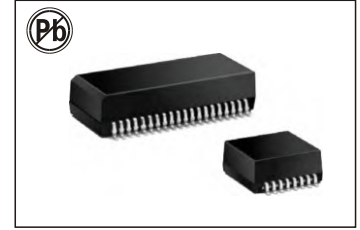


TECHNICAL INFORMATION:

- Soldering methods:Wave,Reflow
 - Operating Temperature: 0°C to 70°C
 - Storage Temperature: -55°C to 125°C
- Note:All specifications subject to change without notice.

◆ 1000 BASE-T MAGNETICS MODULES

LAN – 1000



FEATURES:

- 1:1 Turns Ratio
- Full Duplex Compatible
- IEEE 802.3 Compliant

OPTIONS:

- Tape & Reel is Standard
- Bulk upon request

COMMON APPLICATIONS:

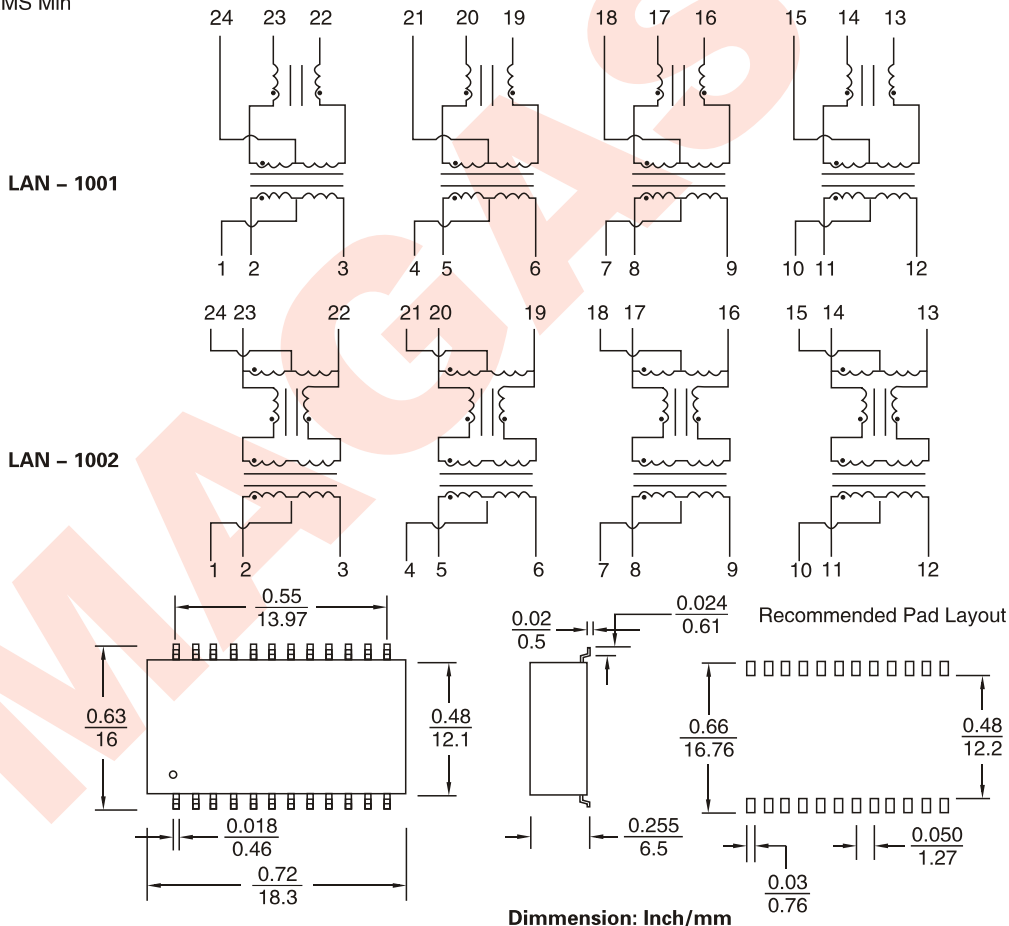
- Gigabit Ethernet 100/1000 Base -T
- 4 pair Category 5 UTP cable

STANDARD SPECIFICATIONS

Part Number	Return Loss (dB Min @ 100Ω)					Differential to Common Mode Reiection(dB Min)			Cross talk (dB Min)		
	1-30 MHz	40 MHz	50 Mhz		60-80 MHz	30 MHz	60 Max	100 Max	30 Max	60 Max	100 Max
LAN-1001	18	14.4	13.1	12	10	43	37	33	45	40	35
LAN-1002	18	14.4	13.1	12	10	43	37	33	45	40	35

Insertion Loss: 1.0dB Max @ 1-100 Mhz OCL:350 μH Min 8mA DC bias (line side)

Hipot:1500 VRMS Min



TECHNICAL INFORMATION:

- Soldering methods:Wave,Reflow
- Operating Temperature:0°C to 70°C
- Storage Temperature:-55°C to 125°C

Note:All specifications subject to change without notice.