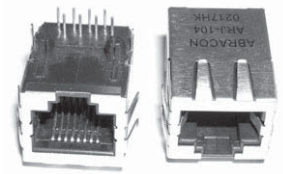


# TAP DOWN RJ45 LAN MAGNETIC

## ARJ-1XX SERIES



### FEATURES:

- Low cost 1x1 Tab-Down RJ45
- Available with or without LED
- Suitable CAT 5 & 6 cable and UTP
- Comply IEEE 802.3

### OPTIONS:

- PVC tube package

### APPLICATIONS:

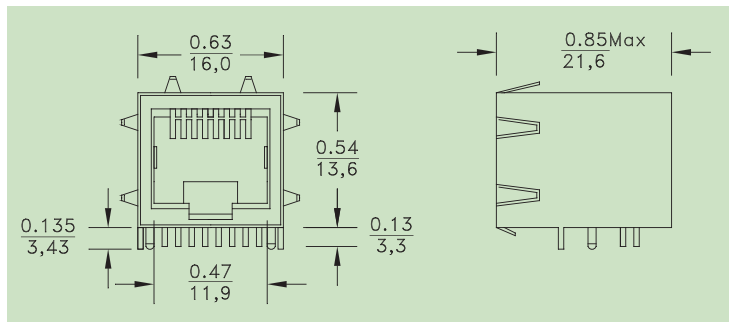
- LAN Magnetic with RJ45
- 10/100Base-T Intergrated Magnetic
- NIC, LoM and PC

### STANDARD SPECIFICATIONS:

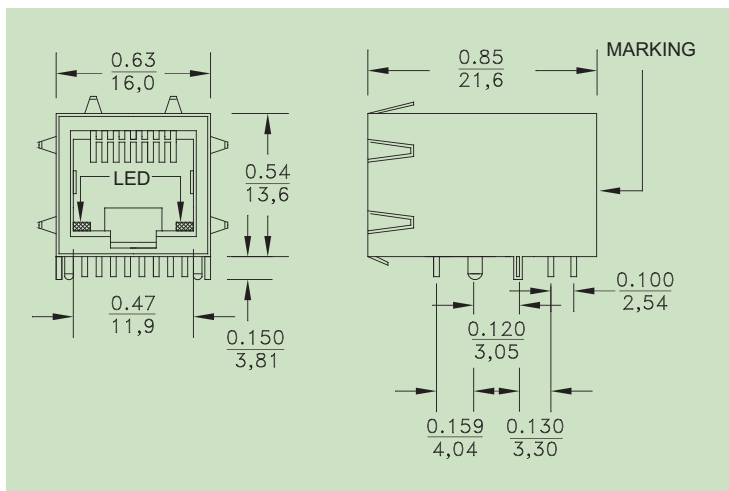
| Part No. | Turns Ratio ( $\pm 2\%$ ) |          | Return Loss (dB Min) MHz |       |       | Xtalk (dB Min)MHz |       | CMRR (dB Min) MHz |         | Schematic |
|----------|---------------------------|----------|--------------------------|-------|-------|-------------------|-------|-------------------|---------|-----------|
|          | TX                        | RX       | 1-30                     | 30-60 | 60-80 | 1-60              | 60-80 | 1-60              | 60-80   |           |
| ARJ-101  | 1CT:1CT                   | 1CT: 1CT | -16                      | -13   | -10   | -40               | -38   | -45/-40           | -40/-35 | A         |
| ARJ-102  | 1.414CT:1CT               | 1CT: 1CT | -16                      | -13   | -10   | -40               | -38   | -45/-40           | -40/-35 | A         |
| ARJ-103  | 2CT:1CT                   | 1CT: 1CT | -16                      | -13   | -10   | -40               | -38   | -45/-40           | -40/-35 | A         |
| ARJ-104  | 1CT:1.414CT               | 1CT: 1CT | -16                      | -13   | -10   | -40               | -38   | -45/-40           | -40/-35 | A         |
| ARJ-105  | 1CT:2CT                   | 1CT: 1CT | -16                      | -13   | -10   | -40               | -38   | -45/-40           | -40/-35 | A         |
| ARJ-108  | 1CT:2.5CT                 | 1CT: 1CT | -16                      | -13   | -10   | -40               | -38   | -45/-40           | -40/-35 | A         |

| Part No. | Turns Ratio ( $\pm 2\%$ ) |          | Return Loss (dB Min) MHz |       |       |       | Xtalk (dB Min) | CMRR (dB Min) | Schematic |
|----------|---------------------------|----------|--------------------------|-------|-------|-------|----------------|---------------|-----------|
|          | TX                        | RX       | 1-30                     | 30-45 | 45-60 | 60-80 | 1-100MHz       | 1-100MHz      |           |
| ARJ-106  | 1CT:1CT                   | 1CT: 1CT | -18                      | -16   | -14   | -12   | -35            | -35           | B         |
| ARJ-107  | 1CT:1CT                   | 1CT: 1CT | -18                      | -16   | -14   | -12   | -35            | -35           | C         |

### DIMENSIONS WITHOUT LED:



### DIMENSIONS WITH LED:



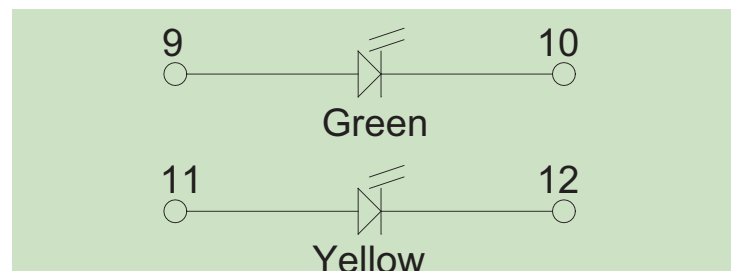
### TECHNICAL INFORMATION:

- I.L.: -1.0 dB Max @ 1MHz to 100MHz
- OCL: 350 $\mu$ H min @ 100KHz, 0.1V<sub>RMS</sub> 8mA DC
- Hipot: 1500 V<sub>RMS</sub> 1 Minute min
- Add D after the part number for with LED
- 2.1V 10mA forward typical
- Operating Temperature: 0°C to +70°C
- Extended temperature subject to request

### NOTES:

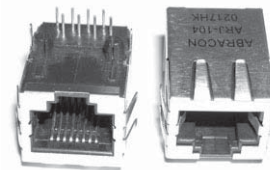
1. Tolerance comply with F.C.C. dimension requirement
2. Housing material: Glass filled polyester UL94V-0
3. Contact material: Phosphor bronze  
t = 0.014 inch / 0.35 mm
4. Plating:
  - a. Contact area selective ( 30 pinch ) gold plating
  - b. Tail ~150 pinch tin-lead min over 150 pinch nickel
5. Operating life: 750 cycles min

**Note:** All specifications subject to change without notice.

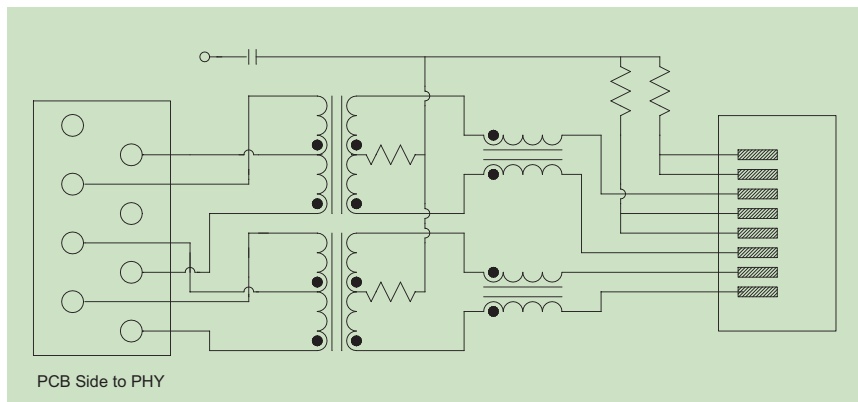


# TAP DOWN RJ45 LAN MAGNETIC

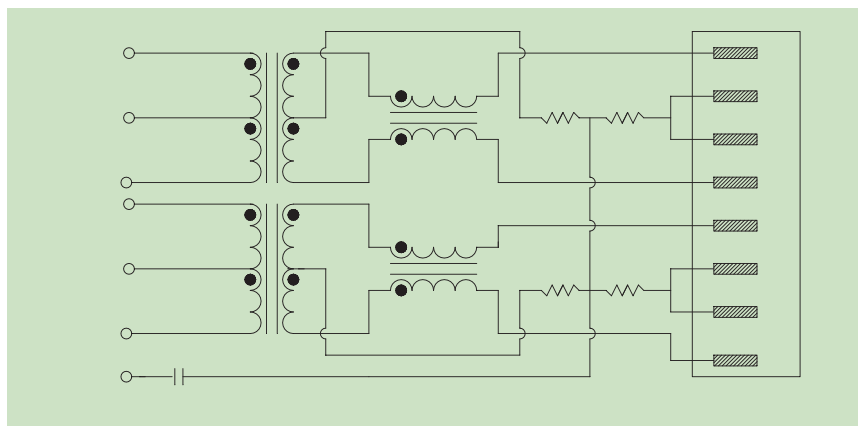
ARJ-1XX SERIES



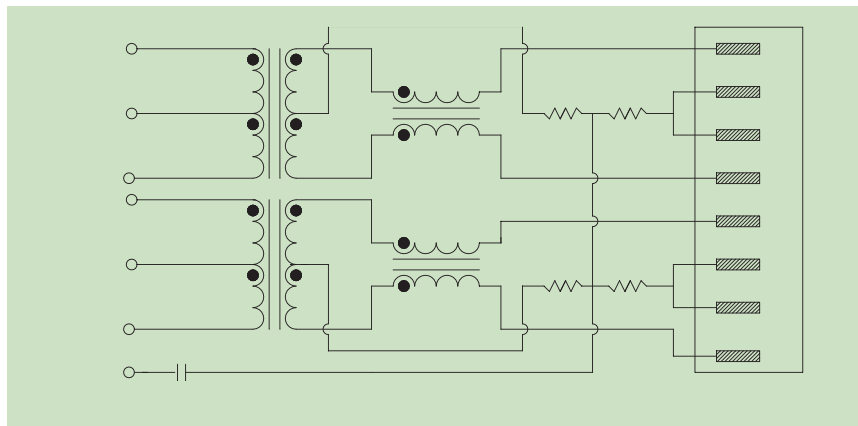
## SCHEMATIC A:



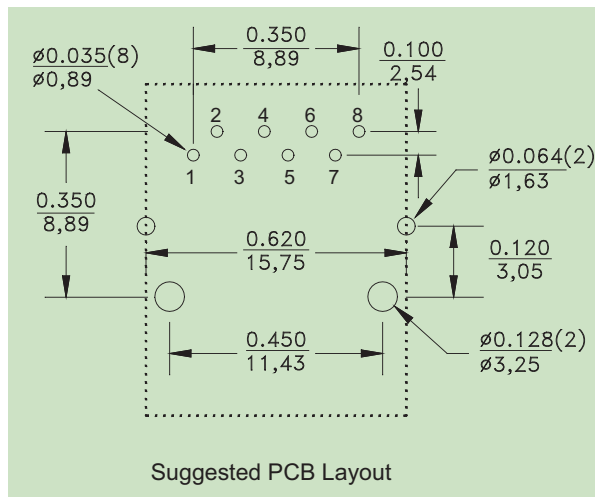
## SCHEMATIC B:



## SCHEMATIC C:



## LANDED PATTERN WITHOUT LED:



## LANDED PATTERN WITH LED:

