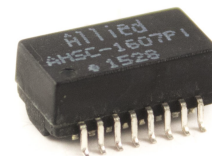




## 10/100 Base T PoE LAN Filter Module

AHSC-1607PI

- Ethernet based LAN, WAN and other networking applications
- For PoE applications with 350mA current capability compliant to 802.3at
- Cw/w:25PF Max @ 100KHz, 0.2V
- Industrial Temp: -40°C to +85°C



## Electrical Specifications @ 25°C

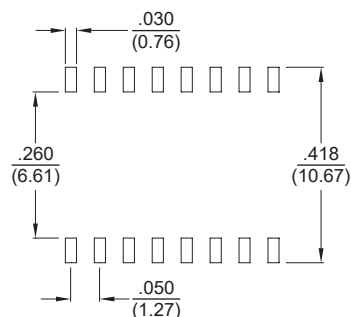
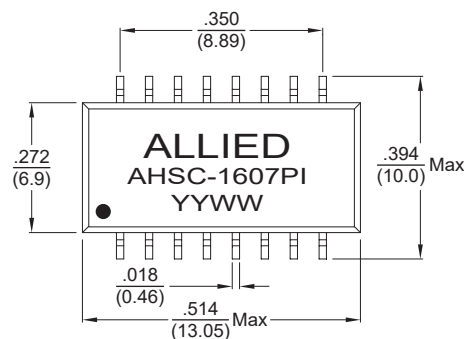
| OCL(μH Min)<br>@ 100kHz, 0.1V | Turns Ratio<br>chip: cable<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |       |          |
|-------------------------------|-------------------------------------|----------------------------|-------------------------|-------|----------|
|                               |                                     | 0.3-100MHz                 | 0.3-30MHz               | 50MHz | 60-80MHz |
| 350                           | 1CT:1CT                             | -1.1                       | -16                     | -12   | -10      |

## Electrical Specifications @ 25°C

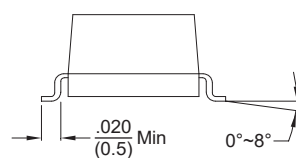
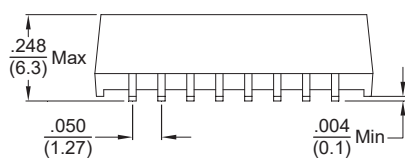
| Common Mode Rejection<br>(dB Min) |       |           | Cross Talk<br>(dB Min) |           | Isolation<br>(Vrms) |
|-----------------------------------|-------|-----------|------------------------|-----------|---------------------|
| 0.3-30MHz                         | 60MHz | 80-100MHz | 0.3-60MHz              | 60-100MHz |                     |
| -40                               | -35   | -30       | -35                    | -30       | 1500                |

All specifications subject to change without notice.

## MECHANICAL

Dimensions:  $\frac{\text{inch}}{\text{mm}}$ 

Recommended PCB Layout



Unless otherwise specified, all tolerances are ±.010(0.25)

## SCHEMATICS

