

# 10/100/1000/2.5G BASE-T DUAL PORT LAN FILTER

## Description

- Design for 2.5G ethernet application. Complying with IEEE 802.3at standard.
- Suitable for End-span POE applications with 720mA current capability.
- Comply with RoHS & Halogen Free requirements.
- Operating temperature range from: -40°C to +85°C.
- Storage temperature range from: -40°C to +85°C.

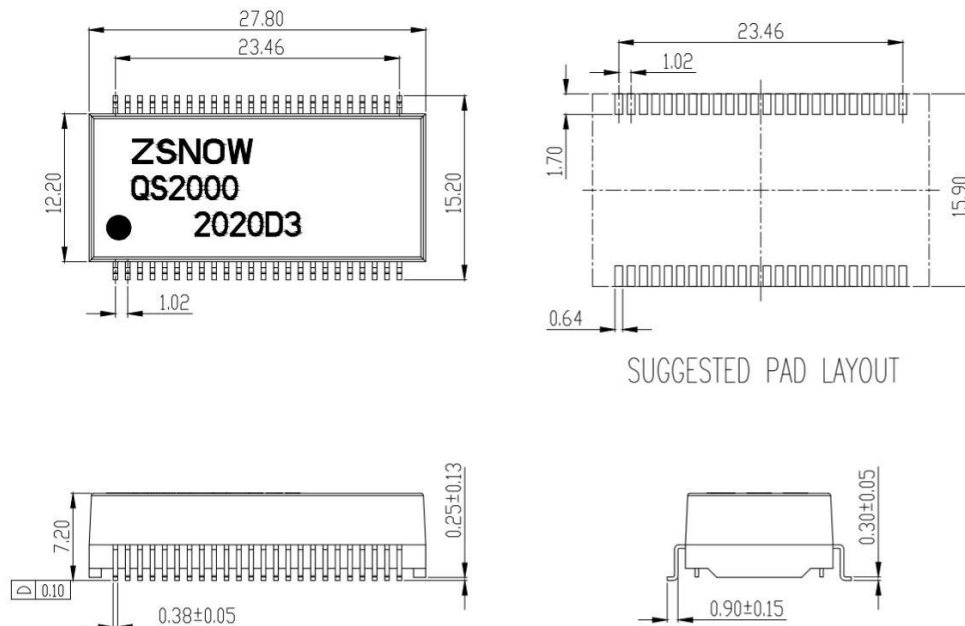


## Electrical Specifications @ 25°C

| Hi-pot:1500 Vrms , Turns Ratio TX/RX(±5%):1CT:1CT , <b>OCL:180(uH Min) @100KHz/0.1V</b> |                             |                                  |                                |                               |                             |                               |
|-----------------------------------------------------------------------------------------|-----------------------------|----------------------------------|--------------------------------|-------------------------------|-----------------------------|-------------------------------|
| Part No                                                                                 | Insertion Loss (dB Max)     |                                  | Return Loss (dB Min)           |                               | DCMR (dB Min)               |                               |
|                                                                                         | $1 \leq f < 50 \text{ MHz}$ | $50 \leq f \leq 125 \text{ MHz}$ | $1 \leq f \leq 40 \text{ MHz}$ | $40 < f \leq 125 \text{ MHz}$ | $1 < f \leq 30 \text{ MHz}$ | $30 < f \leq 125 \text{ MHz}$ |
| QS2000                                                                                  | -0.5                        | -1                               | -16                            | $-(20-10\log_{10}(f/40))$     | -48                         | $-(44-19.2 \log_{10}(f/50))$  |

| Part No | Cross talk (dB Min)                                                                                                  |                                |
|---------|----------------------------------------------------------------------------------------------------------------------|--------------------------------|
|         | $1 \leq f \leq 100 \text{ MHz}$                                                                                      | $100 < f \leq 125 \text{ MHz}$ |
| QS2000  | $20\log_{10}\left[10^{\frac{35.3-15\log_{10}(f/100)}{-20}} + 2 \times 10^{\frac{43-20\log_{10}(f/100)}{-20}}\right]$ | -30                            |

## Mechanical



Dimension: mm / Unless otherwise specified, tolerances: ±0.25(mm)

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## Schematic

