

FEATURES:

- Designed for long haul Gigabit Ethernet 5G Base-T, full duplex applications
- Supports 4 pairs of category 5 UTP cable
- Cable interface for isolation and low common mode emissions
- Compliant with IEEE 802.3an standard
- Meet IEEE 802.3af standards with 350mA
- Meet IEEE 802.3at standards with 720mA
- Recognized by UL 60950-1



YUAN DEAN SCIENTIFIC



LAN Filters

PoE 5G SERIES

5G Base-T

PoE & PoE+

24PIN SMD



Electrical Specifications@25°C-Operating Temperature 0°C to 70°C

| Part Number | Insertion Loss (dB Max) | | Return Loss (dB Min @100 Ω) | | CMR (dB Min) | Crosstalk (dB Min) | | POE Current | Hipot (Vrms Min) |
|-------------|-------------------------|-------------|-----------------------------|-----------------------------------|--------------|--------------------|-------------|-------------|------------------|
| | 50-125 MHz | 125-250 MHz | 1-40 MHz | 40-250 MHz | 30-250 MHz | 1-125 MHz | 125-250 MHz | | |
| 15FB-83VNL | -1.0 | -1.5 | -20 | $-20+15\log_{10}(f/40\text{MHz})$ | -30 | -30 | -20 | 350mA | 1500 |
| 15FB-83WNL | -1.0 | -1.5 | -20 | $-20+15\log_{10}(f/40\text{MHz})$ | -30 | -30 | -20 | 720mA | 1500 |

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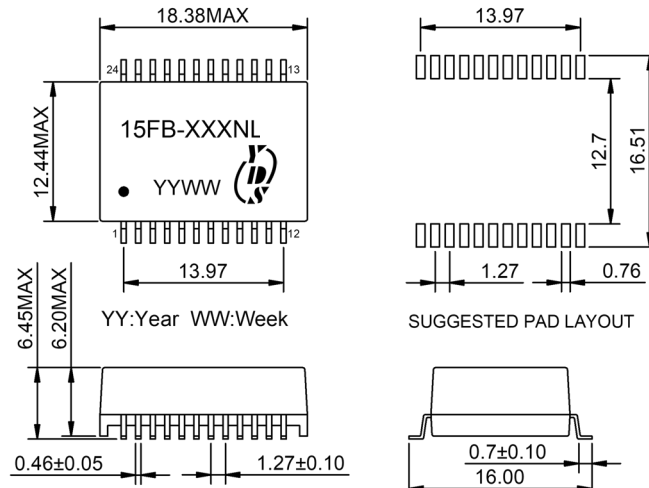
Rev: 1 2020/09/15

Electrical Specifications@25°C-Operating Temperature -40°C to 85°C

| Part Number | Insertion Loss (dB Max) | | Return Loss (dB Min @100 Ω) | | CMR (dB Min) | | | Crosstalk (dB Min) | | POE Current | Hipot (Vrms Min) |
|-------------|-------------------------|-------------|-----------------------------|-----------------------------------|--------------|---------|---------|--------------------|-------------|-------------|------------------|
| | 0.1 MHz | 100-250 MHz | 1-40 MHz | 40-250 MHz | 1-30 MHz | 100 MHz | 250 MHz | 1-100 MHz | 100-250 MHz | | |
| 15FB-84ABNL | -1.0 | -2.0 | -16 | $-16+10\log_{10}(f/40\text{MHz})$ | -43 | -35 | -30 | -40 | -30 | 600mA | 1500 |

Markings and Dimensions

15FB(Bottom Potting)



UNIT: mm Unless otherwise specified, all tolerances are ±0.25

Schematics

