

HXU6200NL

HX1332/CNL



ETHERNET FOR MEDICAL EQUIPMENT

HX1332NL, HX1332CNL AND HXU6200NL

Pulse launches two new high isolation, fast ethernet transformers aimed at medical and dental equipment manufacturers, where reinforced safety isolation is needed. They join the larger 1Gigabit transformer module HXU6200NL that is already in the market.

The HX1332NL contains just the transformer, which offers 4KV isolation, 8mm creepage and clearance and the option to use a dedicated externally fitted choke. While the HX1332CNL uses the same transformer coils but has the common mode choke already fitted, helping to reducing the BOM content and PCB real estate.

Both support 100Base-TX and are designed and constructed to afford a means of operator protection (IMOPP) and a means of patient protection (IMOPP).

Each new part satisfies UL60601-1 and IEC62368-1 for an isolation barrier with working voltage 400Vrms, Pollution Deg II and Material Group IIIb for users needing reinforced insulation.

These designs use open housings which provides MSL1 handling for storage and processing and a shelf life of 18 months.

FEATURES AND BENEFITS:

- Ethernet data rate from 100Mb to 1Gigabit
- Support power rating from 15W up to 30W
- 1 or 2 means of operator protection (MOOP)
- Rugged design for industrial and outdoor use
-40°C to +85°C
- Provides Reinforced Insulation with > 4.6mm Creepage and Clearance
- Support all voltage and current driven Phys.
- *UL60601-1 certified file # E133523

KEY APPLICATIONS

Medical devices:

- MRI, X-ray imaging and surgical equipment
- CPAP and home health monitoring
- Infusion pumps and dialysis equipment
- Other industrial and outdoor high voltage systems

| Part Number* | Data Rate | Schematic | Safety Rating Working voltage | Insulation Breakdown | Creepage and Clearance (mm) | PoE Power Rating (Watts) | Safety Applications | Temp. Rating |
|--------------|------------|------------|----------------------------------|-------------------------|--------------------------------|-----------------------------|------------------------|----------------|
| HX1332NL | 100Base-TX | XFMR Only | 400Vrms | 4000Vrms | 8.0 / 8.0 | 30W | 1 MOOP/MOPP | -40°C to +85°C |
| HX1332CNL | 100Base-TX | XFMR + CMC | 400Vrms | 4000Vrms | 8.0 / 8.0 | 15W | 1 MOOP/MOPP | -40°C to +85°C |
| *HXU6200NL | 1Gigabit | XFMR + CMC | 250Vrms | 3000Vrms | 4.6 / 4.6 | 30W | 2 MOOP | -40°C to +85°C |

*Contact Pulse FAE's and Sales Team for other package sizes and configurations. Custom option may be considered.