

PLU: VQ633

VQ633



Long Description:

ISOLATOR 3 WAY

The VQ633 is a fully isolated, ultra low loss diplexer with an unfiltered output for data applications. ideal for use in digital installations offering The design incorporates a low intermodulation splitter circuit using specially selected "VQ" ferrite.

Specification:

Electrical:

Frequency Response

TV Pass Band: 5 to 80 MHz 120 to 1000 MHz

Input - Data 5 - 1000MHz

FM Pass Band: 88 to 108 MHz

Insertion Loss

Input - TV: 5 to 77 MHz ; 123 - 470 MHz 4.0±0.5dB

77 to 80 MHz 4.5±0.5dB

120 to 123 MHz ; 470 - 700 MHz 4.5±0.5dB

700 to 1000 MHz 5.5±0.5dB

Input - FM 88 to 108 MHz 5.6±0.5dB

Input - Data 5 to 1000 MHz 6.0±0.5dB

Isolation

TV - FM 5 to 70 MHz ≥30dB

70 to 80 MHz ≥15dB

120 to 130 MHz ≥16dB

130 to 1000 MHz ≥28dB

Data-TV/FM 5 to 10 MHz ≥20dB

10 to 80 MHz ≥30dB

80 to 860 MHz ≥20dB

860 to 1000 MHz ≥15dB

Return Loss

Input 8 to 15 MHz ≥15dB

15 to 65 MHz ≥20dB

65 to 80 MHz ≥20dB

88 to 108 MHz ≥15dB

120 to 860 MHz ≥15dB

860 to 1000 MHz ≥15dB

TV 5 to 10 MHz ≥15dB

10 to 65 MHz ≥18dB

65 to 1000 MHz ≥18dB

DATA 5 to 15 MHz ≥15dB

15 to 120 MHz ≥25dB

120 to 1000 MHz ≥25dB

Safety:

Designed to comply fully with BS EN 50083-1 and BS EN 60065 Safety Standards and surpass the following test limits:

Insulation Resistance Test (≥3MΩ)

DC Voltage of 2.12KV applied for >1 minute, Leakage Current ≤0.7mA

*Tests performed after humidity treatment 91 - 95%, 30°C, 48 Hr (EN60065 section 10.2). Performance verified by independent Test House. Certificate available on request.***AC Leakage Current**

<3.5mA RMS for an applied voltage of 240V RMS 50/60 Hz

*Tests performed after humidity treatment 91 - 95%, 30°C, 48 Hr (EN60065 section 10.2). Performance verified by independent Test House. Certificate available on request.***Chrominance/Luminance Delay Inequality**

<10ns between Luminance and Chrominance (4.43 MHz) for any channel in the TV band.

Screening Effectiveness 30 to 300 MHz 85dB

EN 50083-2 Class A Device 300 to 470 MHz 80dB

470 to 1000 MHz 75dB

*Measured using absorption clamp method EN 50083-2 section 4.2.2.2. Performance verified by independent Test House. Certificate available on request.***Guaranteed Low Frequency Screening Effectiveness**

10 to 30 MHz 80dB

*Tested on HP8714C network analyser in accordance with the instructions in Technetix Specific Work Instruction No.15 (Appendix I)***Distortion**

There is NO MEASURABLE distortion due to harmonics or intermodulation products produced by this device, i.e. RFI <130dBc. This performance is GUARANTEED for the life of the product.