

Finnish light wave multiplexer is resistant to high temperatures

Precision temperature control of the laser transmitter is required in DWDM systems to prevent drift off a very narrow frequency window of the order of a few GHz.

Two MTL831C multiplexer transmitters can share the same single-pair highway to a single safe-area isolator/receiver combination, providing up to 32 multiplexed inputs.

We have presented an ultra-low power cryoCMOS RF multiplexer fabricated in the FDSOI technology and demonstrated its compatibility with superconducting qubits at millikelvin temperatures for the ...

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It is a safe assumption that the multiple switches, fabricated on a single chip, are well-matched in absolute characteristics and tracking over temperature. Therefore, the amplifier is closed-loop gain ...

In this paper, we report the first demonstration of simultaneous readout of optical TESs by microwave SQUID multiplexing with a sampling frequency of 5 MHz.

Wavelength Division Multiplexing (WDM) is a multiplexing technology used to increase the capacity of optical fiber by transmitting multiple optical signals simultaneously over a single ...

One of the most innovative Finnish wireless electricity methods involves using powerful ultrasonic sound waves to create controlled pathways through air for electrical transmission. The ...

TiAl based surface acoustic wave (SAW) devices, which offer a promising cheap and easy to handle wireless sensor solution for intermediate high temperatures up to 600 °C, were prepared ...

Here, we develop a novel design approach that co-optimizes inverse-designed wavelength division multiplexers and distributed Bragg gratings to achieve ultra-low crosstalk without compromising ...

Here we report a low-power radio-frequency multiplexing cryo-electronics system that operates below 15 mK with a minimal cross-coupling.

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