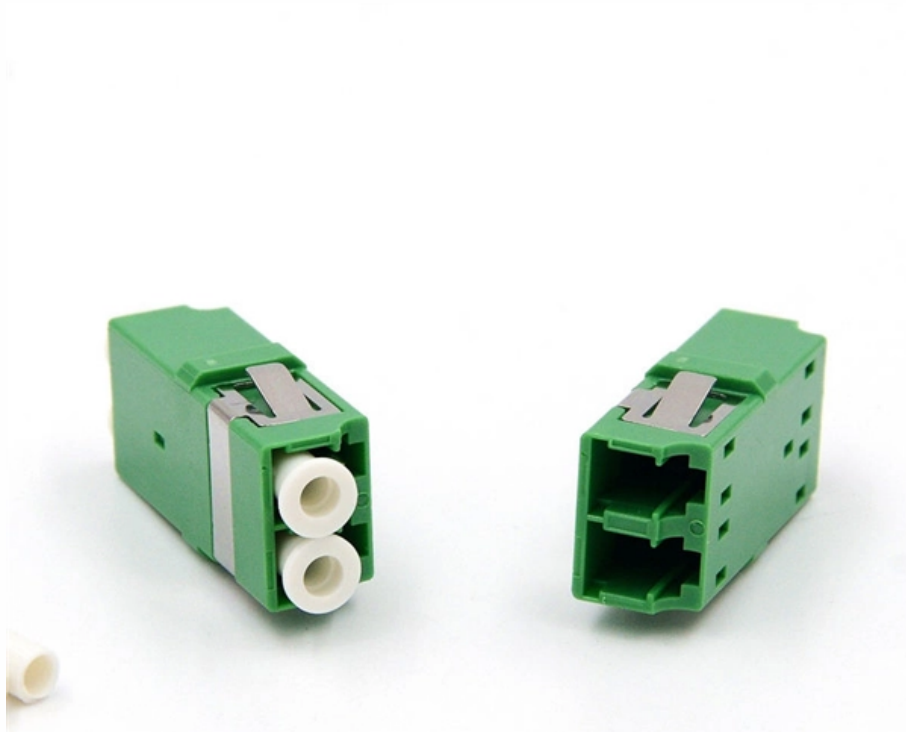


Low-loss inventory of communication power systems





Low-loss inventory of communication power systems



Design of a compact low loss 2-way millimetre wave power divider for

Additionally, the power divider must handle high power levels typical in 5G systems while maintaining low return loss for optimal impedance matching with a compact size. In this paper, a power divider

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A robust multicast communication protocol for Low power and Lossy

However, the lack of scalability and the low data communication reliability due to faulty links or malicious nodes, still remains significant challenges in the broader adoption of RPL in LLNs.

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A Survey of Short-Range Wireless Communication for Ultra-Low-Power

Batteryless technology, particularly batteryless NFC, is an emerging development in short-range wireless communication that combines power and data transmission into a single carrier.

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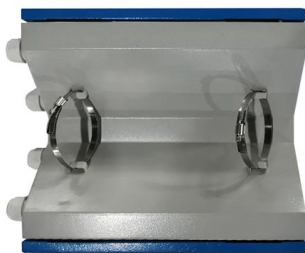
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Design of Ka-Band Power Amplifier and Low-Noise

The primary challenge in designing the front-end of any communication system is the amplifiers. These amplifiers, although linear

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Low-Power Techniques for Wireline Systems

Low-Power Techniques for Wireline Systems
Behzad Razavi Electrical and Computer Engineering Department University of California, Los Angeles razavi@ee.ucla Abstract--As wireline

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Low Power Wireless Communications

An interesting candidate for low power communications are ultra-wideband (UWB) devices. The particularity of these devices is that the data rate is not directly linked to the bandwidth of the

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8 LOW ENERGY WIRELESS COMMUNICATION

In the discussion that follows, we examine the impact of modulation scheme on system energy consumption and transceiver architecture and then discuss general design techniques for boosting

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Characterizing Low-Data-Rate Power Line Communication Channels

PLC system may also be adaptively tuned to measurements of the current local environment. Field experiments in a challenging microgrid and a 24-floor apartment building

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Power Line Communication for Low-Bandwidth Control and Sensing

While not designed with communication applications in mind, power lines have been attractive targets for providing ancillary communication services for decades. Unfortunately, loads

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The intricacies of signal integrity in high-speed communications

To solve the insertion-loss issue, designers have several choices. The first and most straight forward is to select a low-loss, high-performance dielectric material for their PCB. Examples of high

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A review on the empirical characterization of the low voltage

For this reason, the characterization of the electrical grid as a transmission medium is of vital importance for the correct development of Power Line Communications (PLC) technologies and

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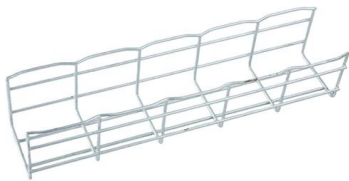
Motor protection controller



What is Low Power Design? - Techniques, Methodology

Low Power Design is a collection of techniques and methodologies aimed at reducing the overall dynamic and static power consumption of an integrated

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Broadband Eight-Way High-Isolation Cavity Power Divider with Low

Nowadays, MIMO technology is one of the hot issues in the development of communication technology. The power dividers have a large role in microwave circuits and it is very

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A Low-Power Communication Strategy for Terminal

The widespread application of terminal sensors in power pipe galleries (PPGs) has significantly improved our ability to monitor power

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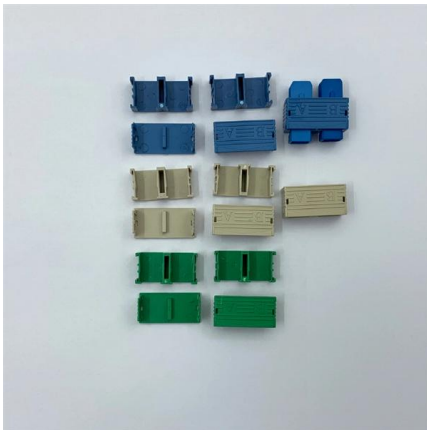
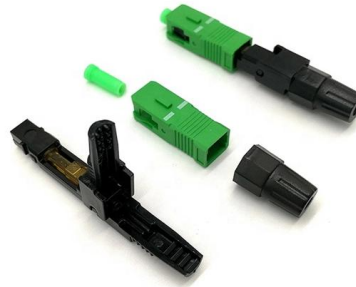




Expert Guide to Low Power Wireless Communication

Discover the benefits of low power wireless communication solutions for your product development. Stay ahead of the curve with our expert guide.

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Evaluation of next-generation low-power communication

Low-power wide-area networking (LPWAN) technologies such as Sigfox and LoRaWAN allow applications to broaden the reaches of IoT as they

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Communications System Power Supply Designs

A power efficient design is required that supplies both the higher voltage analog circuits and multiple tightly regulated low-voltage supplies for the high-speed digital communications ASICs and FPGAs.

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Power Efficient Communication for Low Signal to Noise Ratio Optical

Abstract: Receiver sensitivity is a particularly important metric in optical communication links operating at low signal to noise ratios (SNRs), for example in deep-space communication, since it directly limits

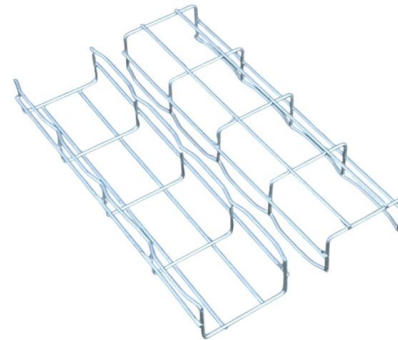
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Design and Performance Analysis for Short Range, Very Low-Power

Our approach is to consider some of the key elements in a transceiver and optimize them for low power consumption, as opposed to optimizing them to minimize, say, average probability of error.

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Analysis and research of communication network system based on

Aiming at the deficiency of RPL routing protocol in high load communication network, a low power loss routing protocol based on load balancing LLN is proposed in this paper.

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(PDF) Abnormal line loss identification system of low

In order to solve the problem of cable aging caused by long-term operation and various internal and external factors, this paper proposes an

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A review on the empirical characterization of the low voltage

The electrical grid was not designed for the transmission of communication signals, which are affected by impedance variations, attenuation, and Non-Intentional Emissions (NIEs) in their

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Ultra-Low-Power Circuits for Intermittent Communication

Frequent power failures during intermittent operations affect the computation forward progress due to intermittent computing and the reliability

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Two-Wire Power Line Microwave Communication Using

Nevertheless, and consistent with previous research, microwave communication using power lines has advantages over free space

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A Survey of Short-Range Wireless Communication for

The foundation of most low-power, short-range communication applications relies on an ultra-low-power microcontroller. Therefore, this study will

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Low-power wide-area network

A low-power, wide-area network (LPWAN or LPWA network) is a type of wireless telecommunication wide area network designed to allow long-range communication at a low bit rate between IoT

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Grid Communication Technologies



The goal of this document is to demonstrate the foundational dependencies of communication technology to support grid operations while highlighting the need for a systematic approach for

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Characterizing Low-Data-Rate Power Line Communication Channels

This communication infrastructure could unlock new sensing and control capabilities, improving the efficiency and reliability of power system operations. In practice, however, power line

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