New DC Blocking Capacitors Efficiently Transmit AC Signals With < 0.5 dB Insertion Loss; New Devices Characterized for Specific Frequency Ranges From 3 MHz to 18 GHz to Simplify Part Selection for Designers

Product Benefits:

- Characterized for common frequency bands ranging from 3 MHz to 18 GHz
- < 0.5 dB insertion loss across the selected frequency band
- Offered in the 0402, 0603, 0805, and 1210 case sizes
- Operate over a voltage range from 25 V to 500 V
- S-parameters are available for download

Market Applications:

- RF, Bluetooth, 5G, and powerline communication circuits; military radios; infotainment systems; fiber optic lines; amplifiers; microwave modules; and high frequency data links

The News:

Vishay Intertechnology introduces a new series of surface-mount multilayer ceramic chip capacitors (MLCC) optimized for DC blocking applications. The industry's first such devices characterized for common frequency bands ranging from 3 MHz to 18 GHz, the Vishay Vitramon DC Blocking Capacitors make it easy for designers to choose the right device for their application.

- The DC Blocking Capacitors cover the HF, VHF, UHF, L, S, C, X, and Ku frequency bands, and offer resonance-free performance across the bands' range
- The MLCCs block DC voltages — eliminating the need for higher-cost broadband blocks — while efficiently transmitting the AC signal with < 0.5 dB insertion loss across the selected frequency band
- Manufactured in reliable noble metal electrode (NME) technology

The Key Specifications:

- Frequency range: 3 MHz to 18 GHz
- Case sizes: 0402, 0603, 0805, and 1210
- Voltage range: 25 V to 500 V
- Temperature range: -55 °C to +125 °C

Availability:
Samples and production quantities of the DC Blocking Capacitors are available now, with lead times of 16 weeks.

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