



FOR IMMEDIATE RELEASE

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PASSIVE PLUS, INC. BROADBAND CAPACITORS:

16 kHz TO > 67 GHz

www.passiveplus.com

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Passive Plus, Inc. (PPI) has developed a series of Broadband Capacitors available in 4 different case sizes: 01005BB, 0201BB, 0402BB, and 0805BB. Values available are 10nF (10,000 pF) and 100nF (100,000 pF).

These capacitors are intended primarily for coupling RF signals or, occasionally, for bypassing them to ground, while blocking DC. The applications for which they are intended require small, surface-mountable devices that provide low RF impedances, i.e., low insertion losses and reflections, across extremely large RF bandwidths and temperatures typically ranging from -55 to +125° C.

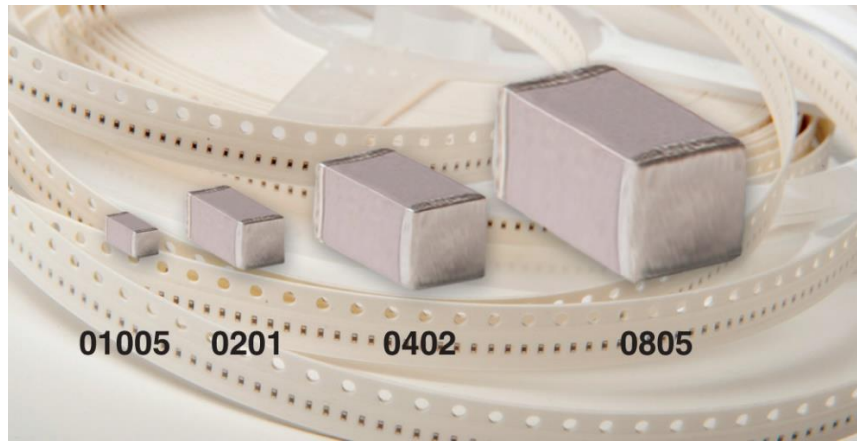
Small, single layer capacitors, apart from not being surface-mountable, usually do not have sufficiently large capacitance values to cover the required frequency range, which may extend from the tens or hundreds of kilohertz to tens of gigahertz. Ordinary multi-layer capacitors, when operated over these ranges, display "parallel resonances," narrow frequency bands over which they have high impedances and insertion losses. The Passive Plus "BB" series overcomes these objections to achieve bandwidths as high as -- in the case of the 0201BB104 - a remarkable bandwidth of 16 kHz to >50 GHz, Insertion Loss <1db, with a WVDC of 16V.

Applications for the Broadband series are primarily found in the "signal integrity" market:

- Optoelectronics/highspeed data
- ROSA/TOSA (Transmit/Receive optical subassemblies)
- SONET (Synchronous Optical Networks)
- Broadband test equipment
- Broadband microwave and millimeter wave amplifiers and oscillators

In general, best results are achieved by capacitors that are close in width to that of the transmission line trace. Most trace widths on commonly used substrates that must function well above 12 GHz lie in the 8- to 24-mil range, and so 0402 and 0201 SMT devices are well suited to the applications.

To reiterate, customers requiring surface-mountable, 10 nF or 100nF capacitors that provide resonance-free, low insertion loss, low reflection operation over extremely large RF bandwidths will be well served by PPI's BB series.



01005BB104MW4R0:

Product Features

- * Frequency range: 16 kHz (- 3 dB point) to > 67 GHz
- * 4 WVDC
- * Insertion Loss: < 1 db, typical
- * Available in 40K pcs/ reel; Lower quantities available in cut tape
- * Available in **Tin**

0201BB103KW250:

Product Features

- * Frequency range: 160 kHz (- 3 dB point) to > 32 GHz
- * 25 WVDC
- * Insertion Loss: < 1 db, typical
- * Available in 15K pcs/ reel; Lower quantities available in cut tape
- * Available in **Tin** and **Gold** terminations

0201BB104KW160:

Product Features

- * Frequency range: 16 kHz (- 3 dB point) to > 40 GHz
- * 16 WVDC
- * Insertion Loss: < 1 db, typical
- * Available in 15K pcs/ reel; Lower quantities available in cut tape
- * Available in **Tin** and **Gold** terminations

0402BB103KW500:

Product Features

- * Frequency range: 160 kHz (-3 dB point) to 40 GHz
- * 50 WVDC
- * Insertion Loss: < 1 db, typical
- * Available in 10K pcs/reel; Lower quantities available in cut-tape
- * Available in **Tin** and **Gold** terminations

0402BB104KW500:

Product Features

- * Frequency range: 16 kHz (-3 dB point) to 50 GHz
- * 50 WVDC
- * Insertion Loss: < 1.2 db, typical
- * Available in 10K pcs/reel; Lower quantities available in cut tape
- * Available in **Tin** and **Gold** terminations

0805BB103KW101:

Product Features

- * Frequency range: 160 kHz (-3 dB point) to 3 GHz
- * 100 WVDC
- * Insertion Loss: < 0.25 db, typical
- * Available in 10K pcs/reel; Lower quantities available in cut-tape
- * Available in **Tin** terminations

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All Data Sheets & S-Parameters can be found at www.passiveplus.com/broadbandcap

For samples and price quotes, contact PPI at
(631) 425-0938
or sales@passiveplus.com.