



**FOR IMMEDIATE RELEASE**

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**PASSIVE PLUS, INC. BROADBAND CAPACITORS:  
0402, 0603, 0805 CASE SIZES -16 kHz TO > 50 GHz**

**Huntington, New York --- March 2022**

In addition to our smaller case size 01005BB and the 0201BB Broadband Capacitors, Passive Plus, Inc. (PPI) has developed larger Broadband Capacitors in three larger case sizes: 0402BB, 0603BB, and 0805BB. Values available are 10nF (10,000 pF) and 100nF (100,000 pF), depending on case size.

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.

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

Customers requiring surface-mountable, 10nF 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 Broadband series.

**0402BB104KW500 (.040" x .020"):**

Capacitance: 100nF  
WVDC: 50V  
TCC:  $0 \pm 15\% / ^\circ\text{C}$  (-55°C to +125°C)  
Typical Operating Frequency: 16 kHz (-3 dB point) to >50 GHz  
Insertion Loss: < 1.2 dB, typical  
Termination: Gold, Non-RoHS Tin/Lead (90/10), and RoHS Tin Plated over Nickel Barrier

**0603BB104KW101 (.060" x .030")**

Capacitance: 100nF  
WVDC: 100V  
TCC:  $0 \pm 15\% / ^\circ\text{C}$  (-55°C to +125°C)  
Typical Operating Frequency: Up to >20 GHz  
Insertion Loss: < 1.2 dB, typical  
Termination: Gold, Non-RoHS Tin/Lead (90/10), and RoHS Tin Plated over Nickel Barrier

**0805BB103KW101 (.080" x .050"):**

Capacitance: 10nF

WVDC: 100V

TCC:  $0 \pm 15\%$  /°C (-55°C to +125°C)

Typical Operating Frequency: 160 kHz (-3 dB point) to >3 GHz

Insertion Loss: < 0.25 dB, typical

Termination: Non-RoHS Tin/Lead (90/10), and RoHS Tin Plated over Nickel Barrier

Always committed to producing the highest quality product on the market, PPI maintains a fully equipped R&D and testing facility ensuring a wide range of superior HI-Q Capacitors and Custom Assemblies. PPI works with requesting engineers to determine best assembly for their applications.

Datasheets, and Modelithics® generated S-Parameter (S2P) Data can be found at [www.passiveplus.com](http://www.passiveplus.com). In addition, PPI's C.A.P. (Capacitor Application Program) is available at [www.passiveplus.net](http://www.passiveplus.net). C.A.P. allows engineers to insert capacitor requirements (Cap value, Frequency) to produce S-Parameter data, ESR, Q & Impedance Charts, and datasheets according to the engineer's specifications.

PPI is known for their outstanding Customer Service, high quality product line, competitive pricing, and quick delivery times. While other companies are pushing out their lead-times for product delivery, PPI is committed to delivering our quality components as quickly as possible.

PPI is a manufacturer of high-performance RF/Microwave passive components specializing in High-Q, Low ESR/ESL Capacitors, Broadband Capacitors, Single Layer Capacitors, Non-Magnetic Chip Resistors and Thin Film Resistors, and Trimmer Capacitors for the Medical, Semiconductor, Military, Broadcast, and Telecommunications Industries.

PPI is ISO9001 certified.

Contact PPI directly at +1 (631) 425-0938 or [sales@passiveplus.com](mailto:sales@passiveplus.com) for quotes, pricing, orders, custom requests or specific engineering questions.