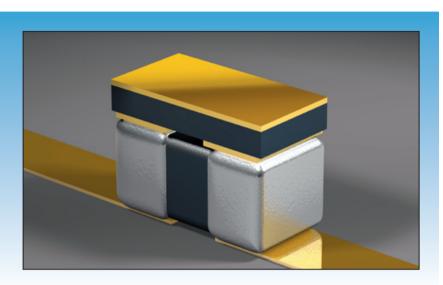
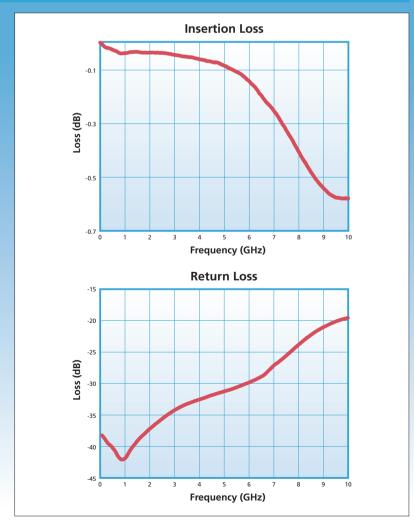


# PX Series Broadband Blocking Device



## **Performance Characteristics**



#### Part number: PX42UX104KCZXT

#### **Features**

- X7R Temperature Stability (-55°C to +125°C)
- Low Frequency Stability
- Low Insertion Loss
- Solder or Epoxy attachment

## **Functional applications**

- Broadband Microwave/Millimeter Wave
- Test Equipment
- ROSA/TOSA
- SONET

#### **Specification**

#### **Electrical**

**Temperature Coefficient of Capacitance** 

X7R ±15% (-55°C to +125°C)

SLC: 120pF Guaranteed Minimum Value (GMV)

MLC: 100nF ±10%

### Voltage

16WVDC

**Dissipation Factor** 

3.0% @ 1MHz

Insulation Resistance

 $>10^3 \,\mathrm{M}\Omega$ 

**Assembly Process Temperature** 

250°C

Metallization

Sn/Ni

Packaging

(T) Tape & Reel - (W) Waffle Pack



## **Attachment Methods - PX Series Broadband Blocking Device**

## Recommended attachment to soft or hard substrate using Conductive Epoxy **Recommended Micro Strip Layout:**

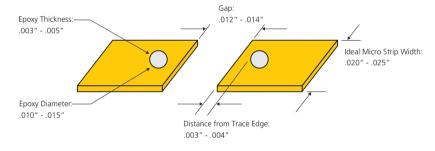
Attachment Method

- 1. Place a single drop of conductive epoxy onto each micro-strip as illustrated; the edge of the epoxy shall be at least .003"-.004" back from the edge of the trace to prevent filling the gap with epoxy.
- 2. Centering the termination gap of the capacitor within the gap in the micro strip, press with careful, even pressure onto the micro strip ensuring the terminations make good contact with the epoxy drops.
- 3. Cure according to the epoxy manufacturer's preferred schedule
  - Typically 125°C to 150°C Max.

4. After curing, inspect joint for epoxy shorts across the termination and micro strip gaps that would cause a short across the cap.

Isopropanol and Methanol are both safe to use to pre clean.

Isopropanol and Methanol are not to be used after mounting with conductive epoxy as they act as a solvent.





Knowles (Cazenovia) 2777 Route 20 East, Cazenovia, NY 13035 USA



Phone: +1 315 655 8710 Fax: +1 315 655 0445 DLISales@knowles.com



Novacap 25111 Anza Drive, Valencia, CA 91355 USA



Phone: +1 661 295 5920 Fax: +1 661 295 5928 NovacapSales@knowles.com



Knowles (UK) Ltd Hethel Engineering Centre, Chapman Way, Hethel, Norwich NR14 8FB



Phone: +44 1603 723300 Fax: +44 1603 723301 SyferSales@knowles.com



Knowles (Cazenovia) 2777 Route 20 East, Cazenovia, NY 13035 USA



Phone: +1 315 655 8710 Fax: +1 315 655 0445 VoltronicsSales@knowles.com