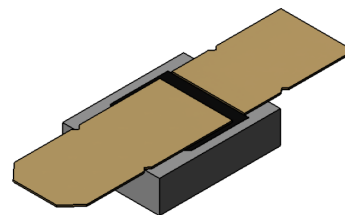


## Description

The SBC Series of beam lead capacitors feature a durable design which uses oxide-nitride passivation layers to provide excellent reliability and stable electrical performance.

The beam lead capacitors are designed for microstrip or strip line circuits and for circuits requiring optimized RF Performance.



## Features

- Oxide-nitride passivated
- Durable construction
- Gold Bonding Surfaces (Top & Bottom)
- No Wire Bonding Required
- Supports Thermocompression Tacking Techniques
- Supports Epoxy Attach Techniques
- Lead (Pb)-free, RoHS-compliant

## Applications

Ideal in higher frequency applications and can be screened to space level qualification.

## Absolute Maximum Ratings<sup>1,2</sup>

Parameter	Absolute Maximum
Rated Voltage	50VDC
Operating Temperature	-55°C to +150°C
Storage Temperature	-65°C to +200°C
Moisture Sensitivity Rating	MSL 1

## Static Sensitivity

These electronic devices are sensitive to electrostatic discharge (ESD) and can be damaged by static electricity. Proper ESD control techniques should be used when handling these devices.

## Moisture Sensitivity

SemiGen beam lead devices are MSL 1.

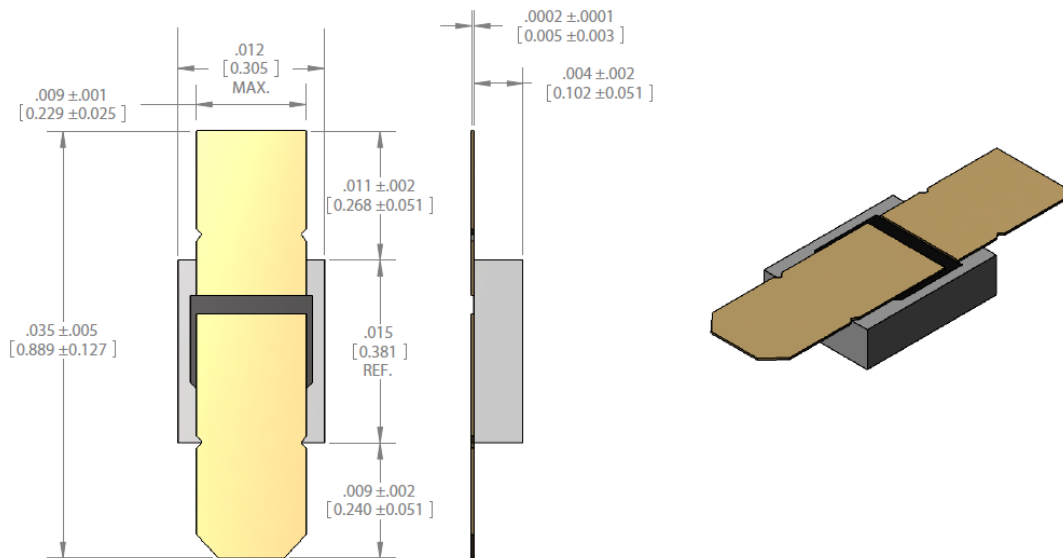
1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. SemiGen does not recommend sustained operation near these survivability limits.

## Available Parts

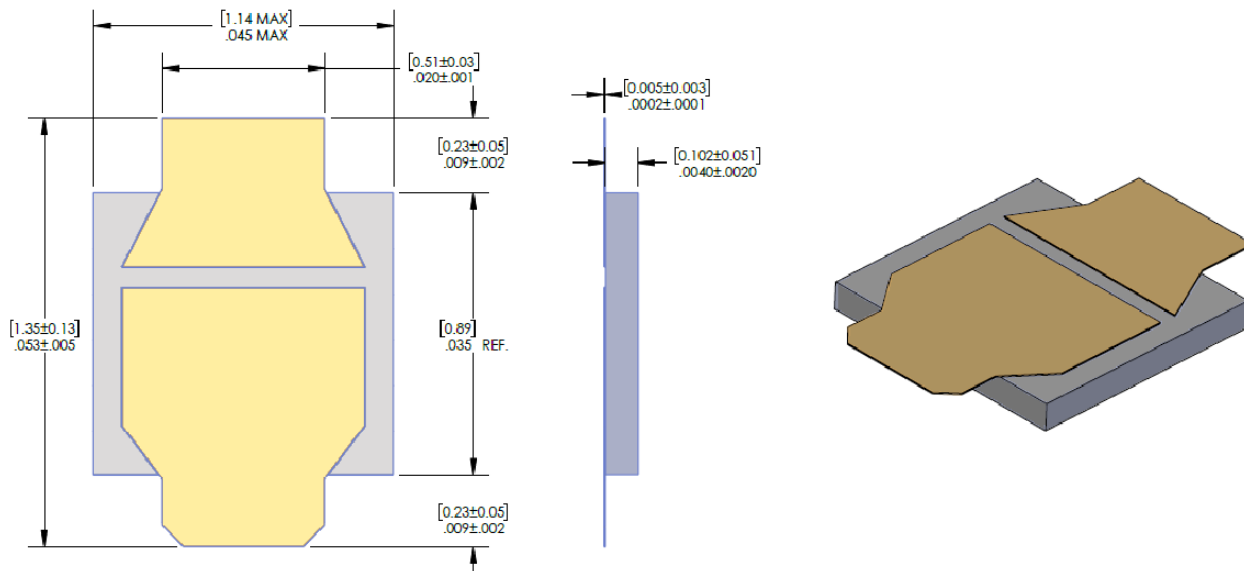
Part Number	$C_T^1$ f=1MHz pF	DWV Min. V	$I_R$ V=25V uA	$T_{CC}$ Typ. ppm/°C	Package
SBC50-0.5-14-2	0.5	50	1.0	55	PK14-2
SBC50-1-14-2	1.0	50	1.0	55	PK14-2
SBC50-1.5-14-2	1.5	50	1.0	55	PK14-2
SBC50-2-14-2	2.0	50	1.0	55	PK14-2
SBC50-3-14-2	3.0	50	1.0	55	PK14-2
SBC50-4-14-2	4.0	50	1.0	55	PK14-2
SBC50-5.6-14-2	5.6	50	1.0	55	PK14-2
SBC50-6-14-2	6.0	50	1.0	55	PK14-2
SBC50-8-14-2	8.0	50	1.0	55	PK14-2
SBC50-10-14-2	10.0	50	1.0	55	PK14-2
SBC50-15-14-2	15.0	50	1.0	55	PK14-2
SBC50-20-14-3	20.0	50	1.0	55	PK14-3
SBC50-33-14-3	33.0	50	1.0	55	PK14-3
SBC50-47-14-3	47.0	50	1.0	55	PK14-3
SBC50-68-14-3	68.0	50	1.0	55	PK14-3
SBC50-82-14-3	82.0	50	1.0	55	PK14-3
SBC50-100-14-3	100.0	50	1.0	55	PK14-3

1. Tolerance is ±20% for values shown

## Package Style—PK14-2



## Package Style—PK14-3



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