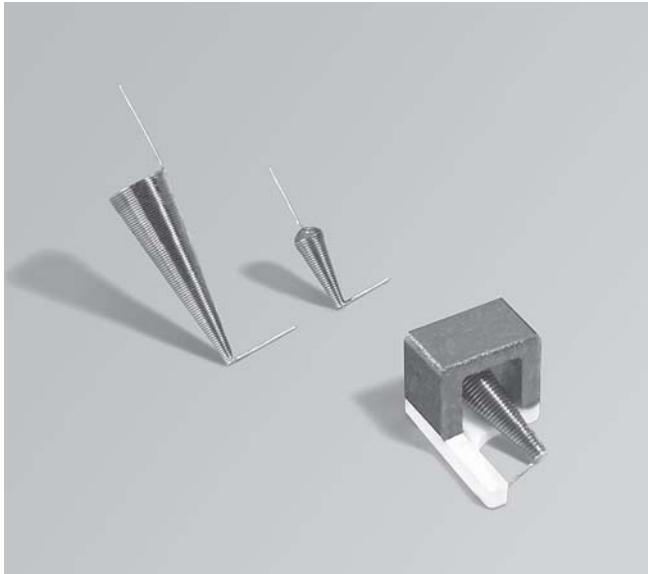




Broadband Conical Inductors



Coilcraft's conical inductors are designed specifically for broadband and high frequency applications. This single component operates as a series of narrow-band inductors throughout an operating frequency range of 10 MHz to 40 GHz.

These conical inductors are ideal for use in ultra-wideband bias T's. In this application, the conical inductor provides the path for the DC bias injection or extraction while isolating the power source from the active device.

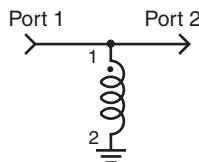
The BCL versions are supplied with "flying leads" that allow adjustment of the mounting angle. Each surface mount BCS inductor has a self positioning mounting bracket.

To request evaluation samples, contact Coilcraft.

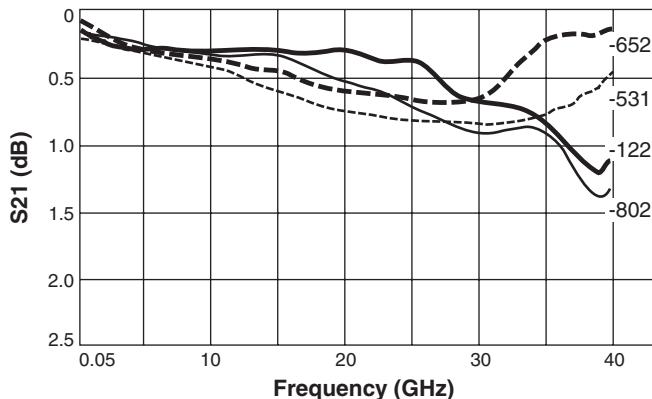
S-Parameter files ON OUR WEB SITE OR CD

Part number		Inductance ² ±5% (μ H)	DCR max (Ohms)	Irms (mA)
Surface mount ¹	Flying lead			
BCS-531JL	BCL-531JL	0.53	0.15	830
BCS-122JL	BCL-122JL	1.2	1.05	200
BCS-652JL	BCL-652JL	6.5	0.70	510
BCS-802JL	BCL-802JL	8.0	3.39	150

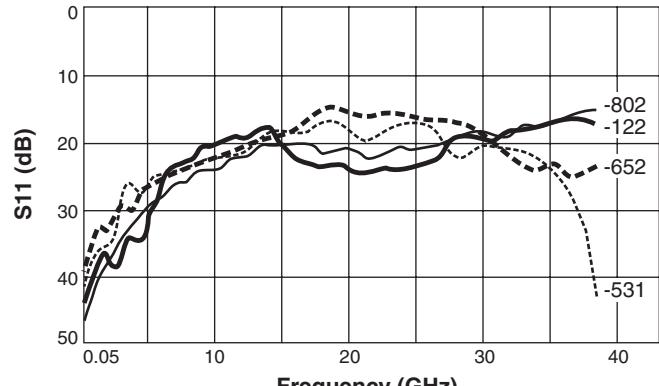
Response curves measured in a bias tee configuration with an Agilent/HP 8722ES network analyzer.



Insertion Loss (BCL and BCS)



Return Loss (BCL and BCS)



Coilcraft®

Specifications subject to change without notice.
Please check our website for latest information.

Document 334-1 Revised 10/30/08

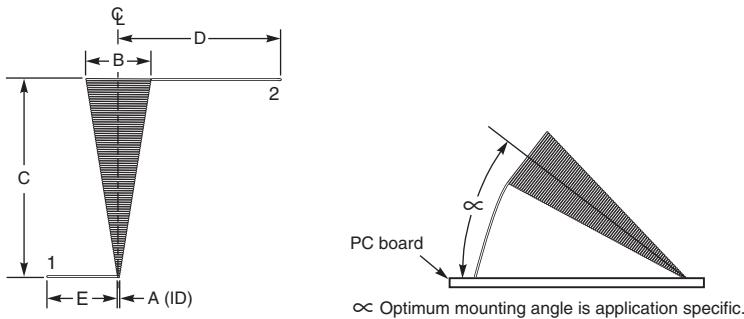
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail info@coilcraft.com Web http://www.coilcraft.com



Broadband Conical Inductors

BCL



Packaging: 25 per tray

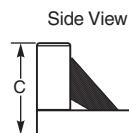
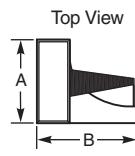
Terminations: Tin-silver over copper

Weights: BCL-531: 20 mg; BCL-122: 6 mg; BCL652: 155 mg; BCL802: 26 mg

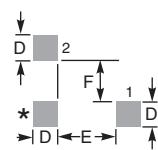
A	B max	C max	D ($\pm 0.010/2,54$)	E ($\pm 0.010/2,54$)
BCL-531	0.008 $\pm 0.002/0,20 \pm 0,05$	0.071/1,80	0.179/4,55	0.166/4,22
BCL-122	0.008 $\pm 0.002/0,20 \pm 0,05$	0.045/1,14	0.104/2,64	0.166/4,22
BCL-652	0.008 $\pm 0.002/0,20 \pm 0,05$	0.140/3,56	0.418/10,62	0.390/9,91
BCL-802	0.008 $\pm 0.002/0,20 \pm 0,05$	0.074/1,88	0.225/5,72	0.180/4,57

Dimensions (inches/millimeters)

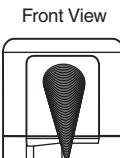
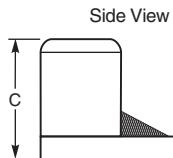
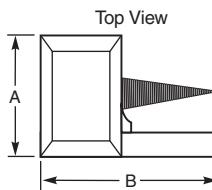
BCS-122



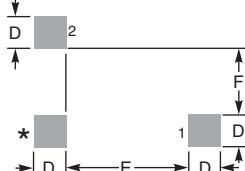
Recommended Land Pattern



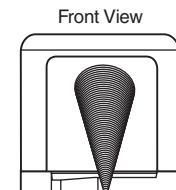
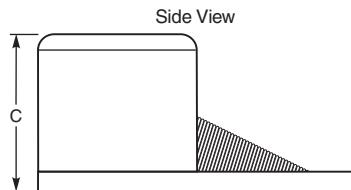
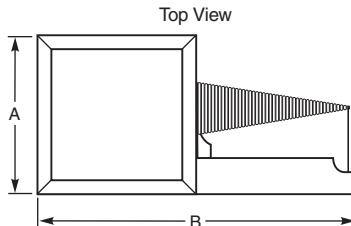
BCS-531, BCS-802



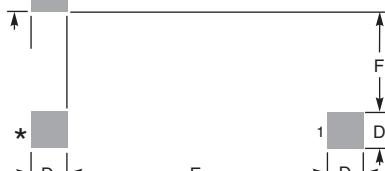
Recommended Land Pattern



BCS-652



Recommended Land Pattern



* Pad is for mounting stability only. Do not connect to circuit.

Terminations: Tin-silver-copper over silver-platinum-glass frit

Weights: BCS-122: 19 mg; BCS-531: 71 mg; BCS-802: 77 mg; BCS-652: 329 mg

A	B	C	D	E	F
BCS-531	0.150 $\pm 0.010/3,81 \pm 0,25$	0.220 $\pm 0.010/5,59 \pm 0,25$	0.160 $\pm 0.010/4,06 \pm 0,25$	0.040/1,02	0.150/3,81
BCS-122	0.100 $\pm 0.010/2,54 \pm 0,25$	0.120 $\pm 0.010/3,05 \pm 0,25$	0.110 $\pm 0.010/2,79 \pm 0,25$	0.030/0,76	0.070/1,78
BCS-652	0.220 $\pm 0.010/5,59 \pm 0,25$	0.440 $\pm 0.010/11,18 \pm 0,25$	0.220 $\pm 0.010/5,59 \pm 0,25$	0.050/1,27	0.360/9,14
BCS-802	0.150 $\pm 0.010/3,81 \pm 0,25$	0.220 $\pm 0.010/5,59 \pm 0,25$	0.160 $\pm 0.010/4,06 \pm 0,25$	0.040/1,02	0.150/3,81

Dimensions (inches / millimeters)

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Please check our website for latest information.

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