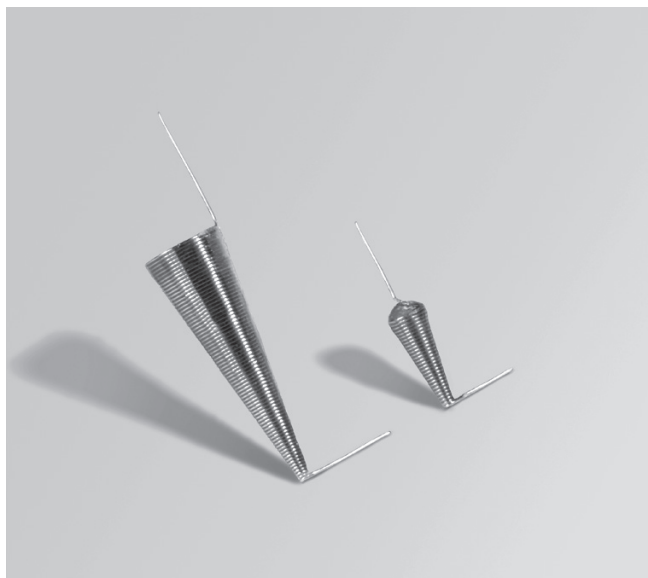




Broadband Conical Inductors



- Designed specifically for broadband and high frequency applications.
- Operates as a series of narrow-band inductors throughout an operating frequency range of 10 MHz to 40 GHz.
- Ideal for use in ultra-wideband bias Tees, where the conical inductor provides the path for the DC bias injection or extraction while isolating the power source from the active device.
- Supplied with "flying leads" that allow adjustment of the mounting angle.
- For a surface mount version with a self positioning mounting bracket, consider the BCR series.

Terminations Tin-silver-copper (96.5/3/0.5) over copper

Ambient temperature -40°C to +85°C

Storage temperature Component: -40°C to +85°C.

Packaging trays: -40°C to +80°C

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

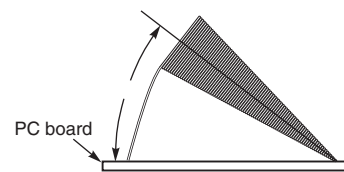
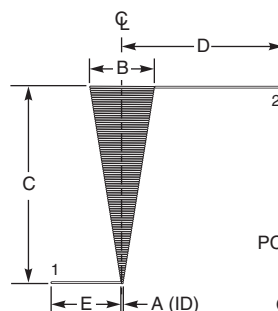
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 25 per tray

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

Part number	Inductance ¹ ±5% (μH)	DCR max (Ohms)	Irms ² (mA)
BCL-531JL	0.53	0.15	830
BCL-122JL	1.20	1.05	200
BCL-652JL	6.5	0.70	510
BCL-802JL	8.0	3.39	150

1. Inductance measured at 10 MHz, 0.1 Vrms, 0 Adc using an Agilent/ HP 4286A LCR meter and a Coilcraft CCF 1111 fixture.
2. Average current for a 40°C rise above 25°C ambient.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.



	Dimensions					
	A	B max	C max	D	E	
BCL-531	0.008 ±0.002 0,20 ±0,05	0.071 1,80	0.179 4,55	0.166 4,216	0.100 2,54	inches mm
BCL-122	0.008 ±0.002 0,20 ±0,05	0.045 1,14	0.115 2,92	0.166 4,216	0.100 2,54	inches mm
BCL-652	0.008 ±0.002 0,20 ±0,05	0.140 3,56	0.435 11,05	0.390 9,906	0.100 2,54	inches mm
BCL-802	0.008 ±0.002 0,20 ±0,05	0.074 1,88	0.237 6,02	0.180 4,572	0.100 2,54	inches mm



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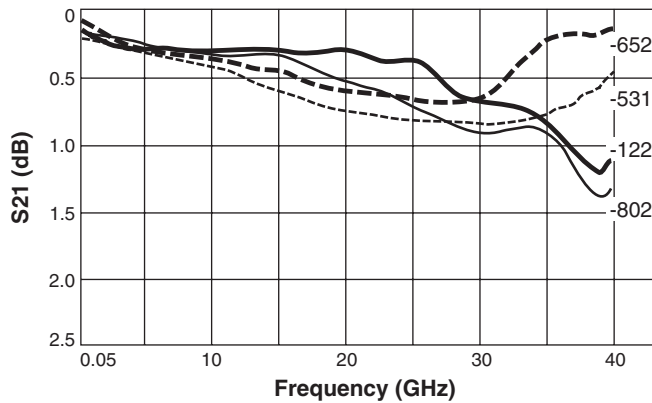
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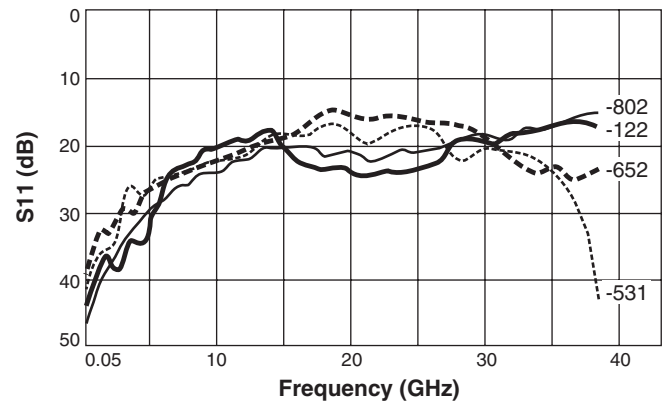


Broadband Conical Inductors

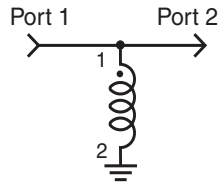
Insertion Loss



Return Loss



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



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