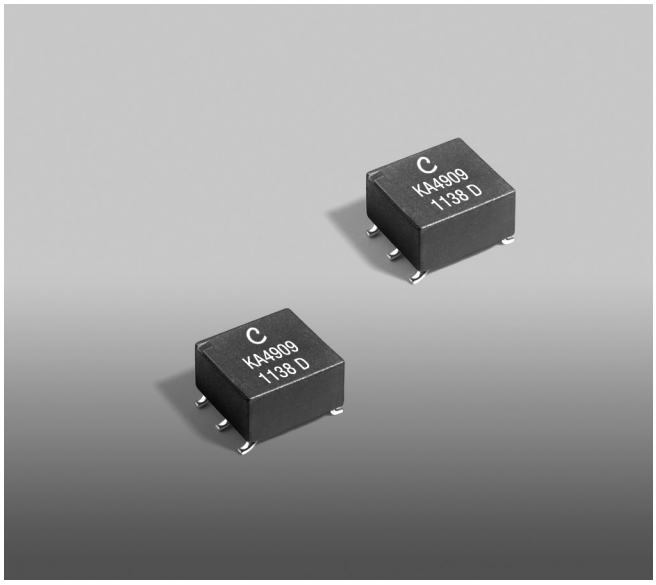
Bias Injection Choke – KA4909-AL



Developed for use with Texas Instruments DS90UB901Q serializer and DS90UB902Q deserializer for Low-Voltage Differential Signaling (LVDS) applications.

This center tapped inductor provides over 1 kOhm impedance from 1 MHz – 800 MHz.

Can be used with additional 10 µH and 1 µH inductors to achieve even wider band differential signal rejection.

AEC-Q200 Grade 3 (–40°C to +85°C) qualified

Core material Ferrite

Terminations RoHS compliant tin-silver-copper over tin over nickel over phos bronze.

Weight 220 mg

Ambient temperature –40°C to +105°C

Storage temperature Component: –40°C to +105°C. Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

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

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 60 per billion hours / 16,666,667 hours, calculated per Telcordia SR-332

Packaging 250/7″reel; 1000/13″ reel Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 5.0 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part number[1]	Inductance[2] ±25% (µH)	DCR max[3] (Ohms)	Irms[4] (mA)
KA4909-AL_	169	0.46	650

1. When ordering, please specify **packaging** code:

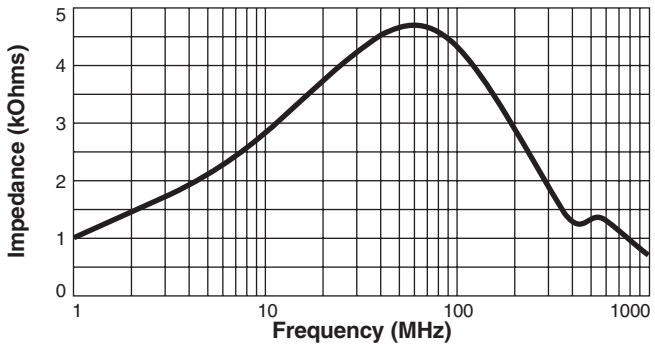
KA4909-ALC

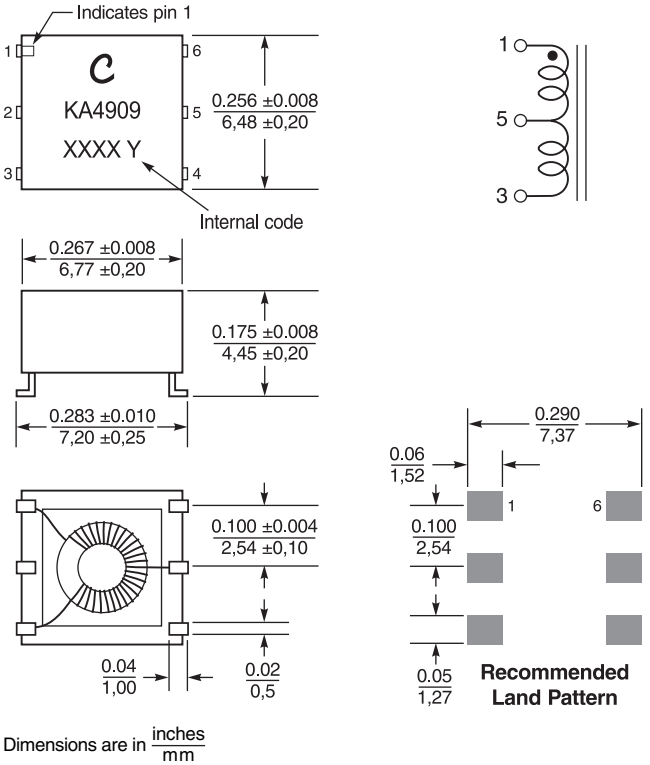
Packaging: **C** = 7″ machine ready reel. EIA-481 embossed plastic tape, 250 parts per full reel.
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter C instead.
D = 13″ machine ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).

2. Inductance tested from pins 1 to 3 at 100 kHz, 0.007 Vrms, 0 Adc.
3. DCR is tested from pins 1 to 3
4. Current that causes a 20°C rise from 25°C ambient.
5. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Impedance vs Frequency





Dimensions are in inches / mm

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