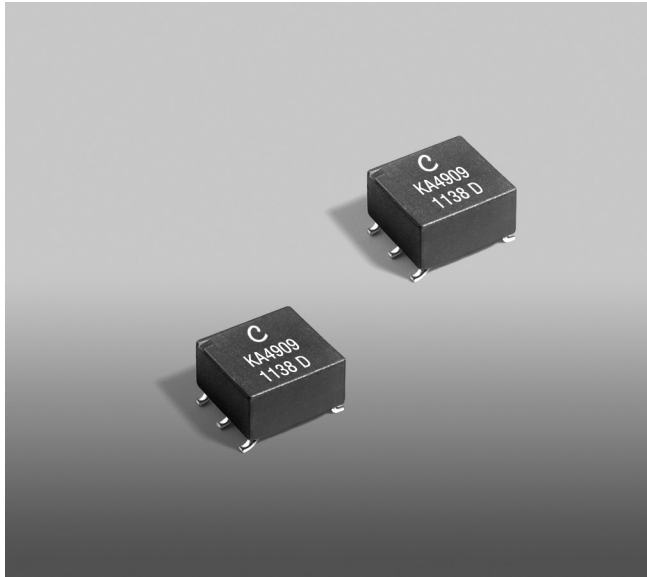


Bias Injection Choke – KA4909-AL



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 μ H and 1 μ H 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)

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 $\pm 25\%$ (μ H)	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. Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

D = 13" machine ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).

B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.

2. Inductance tested from pins 1 to 3 at 100 kHz, 0.007 Vrms, 0 Adc.

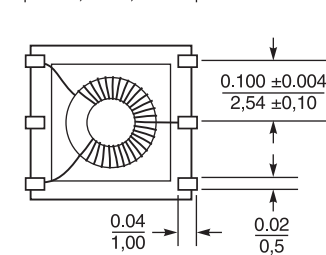
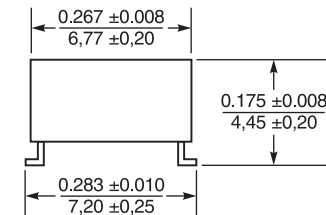
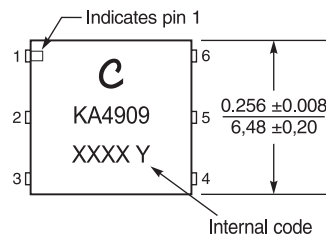
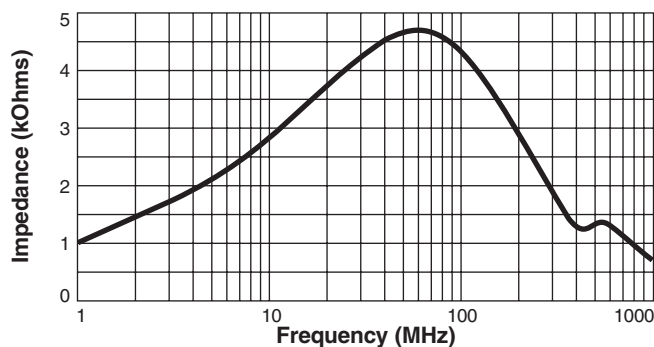
3. DCR is tested from pins 1 to 3

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 $\frac{\text{inches}}{\text{mm}}$

