

Wideband RF Choke WA8514-AE



- Developed for Mini-Circuits PHA-202+ Monolithic Amplifier
- Optimized for use between 30–3000 MHz
- 5.6 μH nominal inductance
- DCR less than 0.45 Ohms
- SRF greater than 200 MHz
- Capable of handling over 500 mA
- Very low profile – only 1 mm tall

Part number ¹	Inductance ² $\pm 20\%$ (μH)	DCR (Ohms)		SRF (MHz)	Isat ³ (A)	Irms (A) ⁴	
		typ	max			20°C rise	40°C rise
WA8514-AE_	5.6	0.40	0.46	250	0.73	0.60	0.80

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

WA8514-AEC

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

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.

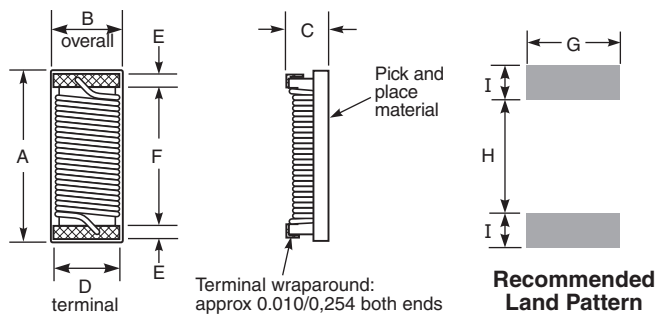
2. Inductance measured at 100 kHz, 0.1 V using an Agilent/HP 4284A impedance analyzer.

3. DC current at which the inductance drops 30% (typ) from its value without current.

4. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings

5. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



A	B	C	D	E	F	G	H	I	
max	max	max							inches
0.171	0.078	0.04	0.065	0.013	0.134	0.095	0.124	0.033	
4,34	1,98	1,02	1,65	0,33	3,40	2,413	3,15	0,838	mm

Core material Composite

Environmental RoHS compliant, halogen free

Terminations Silver-palladium-platinum-glass frit.

Weight 17.7 mg

Ambient temperature -40°C to $+125^{\circ}\text{C}$ with (20°C rise) Irms current

Maximum part temperature $+145^{\circ}\text{C}$ (ambient + temp rise)

Storage temperature Component: -40°C to $+145^{\circ}\text{C}$.

Tape and reel packaging: -40°C to $+80^{\circ}\text{C}$

Resistance to soldering heat Max three 40 second reflows at $+260^{\circ}\text{C}$, parts cooled to room temperature between cycles

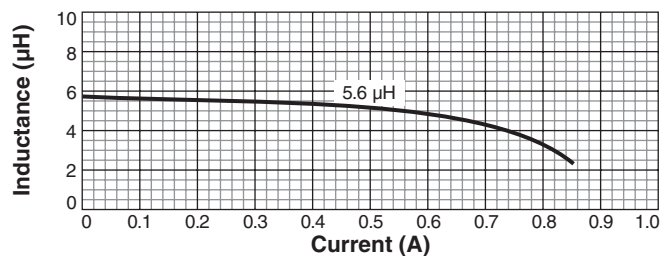
Temperature Coefficient of Inductance (TCL) $+25$ to $+125$ ppm/ $^{\circ}\text{C}$

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}\text{C}$ / 85% relative humidity)

Packaging 2000 per 7" reel; Plastic tape: 12 mm wide, 0.21 mm thick, 4 mm pocket spacing, 1.09 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

L vs Current



Z vs Frequency

