

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

impedance analyzer.

maximum ratings

L vs Current

10

6

2

0

100

10

1.0

0.1

0.01

Impedance (kOhms)

0 0.1

Z vs Frequency

Inductance (µH)

5. Electrical specifications at 25°C.

0.2

0.3

10

0.4

out current.

- Capable of handling over 500 mA
- Very low profile only 1 mm tall

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

3. DC current at which the inductance drops 30% (typ) from its value with-

4. Current that causes the specified temperature rise from 25°C ambient.

This information is for reference only and does not represent absolute

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

5.6 uH

0.5

Current (A)

0.6

0.7

0.8

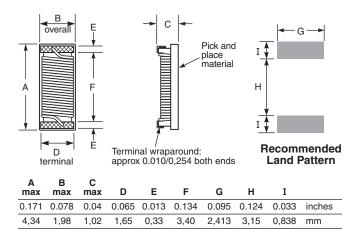
0.9 1.0

Part	Inductance ²	DCR (Ohms)		SRF	Isat ³	Irms (A) ⁴		
number ¹	±20% (μΗ)	typ	max	(MHz)	(A)	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.



Core material Composite

Environmental RoHS compliant, halogen free

Terminations Silver-palladium-platinum-glass frit.

Weight 17.7 mg

Ambient temperature -40°C to +125°C with (20°C rise) Irms current Maximum part temperature +145°C (ambient + temp rise) Storage temperature Component: -40°C to +145°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

Temperature Coefficient of Inductance (TCL) +25 to +125 ppm/°C Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF) One per billion hours / one billion hours, calculated per Telcordia SR-332 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.



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Document 1458 Revised 05/10/18

100

Frequency (MHz)

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1000

This product may not be used in medical or high risk applications without prior Coilcraft approval Specification subject to change without notice Please check web site for latest information