AC1 SERIES

AS9100 D CERTIFIED
ISO 9001 CERTIFIED
ITAR COMPLIANT

HIGH FREQUENCY

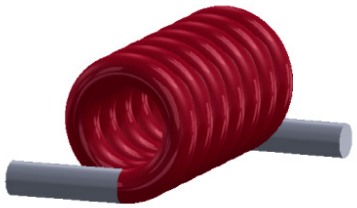
Inductance Range (nH)	DCR max (mOhms)	Current Rating (Amps)
22 to 120	4.0 to 17.3	1.5 to 3.5

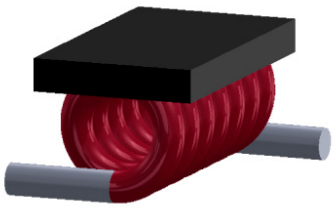
ELECTRICAL SPECIFICATIONS

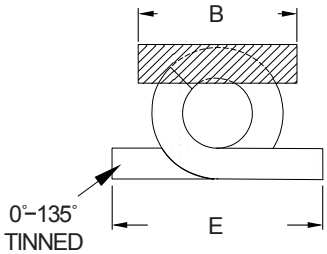
- **Operating Temperature:** −40°C to +85°C
- **Storage Temperature:** −60°C to +130°C
- **Temperature Rise @ 90°C:** < 30°C
- **Standard Co-Planarity** is 0.010”
- **For 0.005” Co-Planarity** add -005 to end of part number
- **Operating Frequency:** Up to 1 GHz

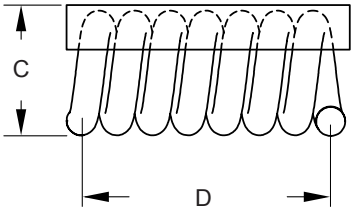
FEATURES

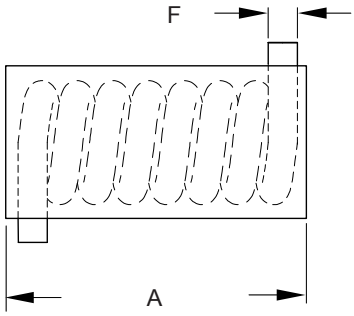
- **High Operating Frequency Range** allows for usage in multiple applications
- **Extremely low DCR** and high current capability
- **Terminations:** Tin-lead coated
- **Automatic Placement:** Protective epoxy coating on top surface for ease of auto placement

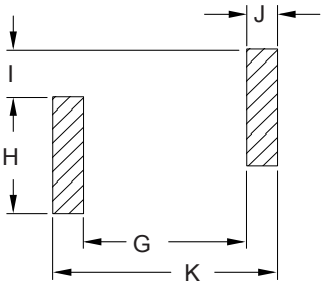












RECOMMENDED MOUNTING PAD CIRCUIT SIDE

Vanguard Part Number	A (MAX.)	B (MAX.)	C	D	E	F (REF.)	G (REF.)	H (REF.)	I (REF.)	J (REF.)	K (REF.)
AC1	.210	.160	.165 ±.010	.170 ±.010	.270 ±.010	.020	.112	.203	.103	.058	.228

*Dimensions are in inches.

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REV E

DATA TABLE

VE P/N	Inductance (nH)	Inductance Test Freq. (MHz)	Q min	Q TEST FREQ. (MHz)	SRF min (GHz)	DCR max (mOhms)	Rated DC Current (mA)
AC1-01	22	150	100	150	3.2	4.0	3.5
AC1-02	27	150	100	150	2.7	4.0	3.5
AC1-03	33	150	100	150	2.5	4.8	3.0
AC1-04	39	150	100	150	2.1	5.0	3.0
AC1-05	47	150	100	150	2.1	5.6	3.0
AC1-06	56	150	100	150	1.5	6.2	3.0
AC1-07	68	150	100	150	1.5	8.2	2.5
AC1-08	82	150	100	150	1.3	9.4	2.5
AC1-09	100	150	100	150	1.2	12.3	1.7
AC1-10	120	150	100	150	1.1	17.3	1.5

Inductance tolerance: Standard tolerance on inductance = 20%

Add **G**, or **J** after dash number to specify other tolerances

G = 2%, **J** = 5%,

Example: AC1-04G for 39 nH ± 2%

CUSTOM DESIGNS & MODIFICATIONS:

Other electrical configurations and performance characteristics are available in various sizes and package types

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