



AC3 SERIES



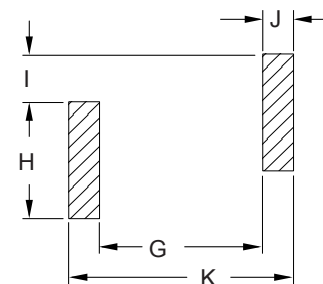
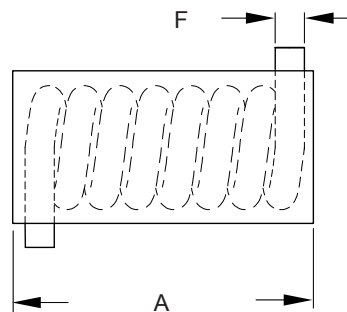
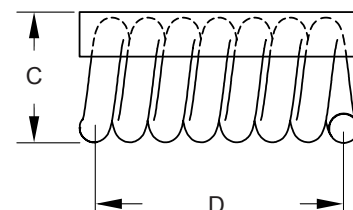
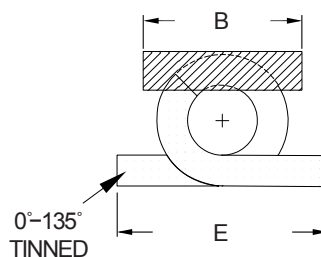
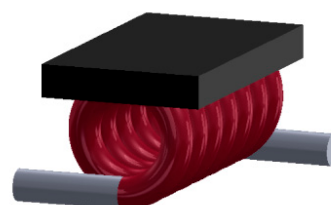
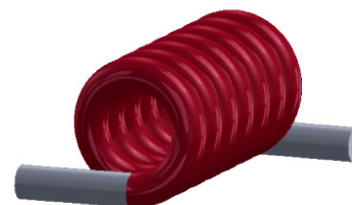
HIGH FREQUENCY

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°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 the end of part number

FEATURES

- **Low Thermal Expansion** permits mounting on most substrate material
- **Automatic Placement:** Protective epoxy coating on top surface for ease of auto placement
- **High operating frequency range** allows for usage in multiple applications
- **Exceptionally high Q value** over wide frequency range
- Terminations are tin-lead coated



RECOMMENDED MOUNTING PAD CIRCUIT SIDE

Vanguard Part Number	A (MAX)	B	C (MAX)	D	E (MAX)	F (MAX)	G (REF)	H (REF)	I (REF)	J (REF)	K (REF)
AC3-01	.155	.125 ±.010	.124	.115 ±.010	.175	.029	.080	.130	.040	.035	.145
AC3-02 thru AC3-06	.270	.125 ±.010	.124	.230 ±.015	.175	.029	.200	.130	.040	.035	.260
AC3-07 thru AC3-10	.095	.055 ±.010	.060	.072 ±.010	.135	.020	.050	.100	.030	.026	.092
AC3-11 thru AC3-15	.165	.055 ±.010	.062	.144 ±.012	.135	.020	.120	.100	.030	.026	.165

*Dimensions are in inches.

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DATA TABLE

Vanguard Part Number	Inductance (nH)	Q min	Test Frequency (MHz)	SRF min (GHz)	DCR max (mOhms)	Current max (A)
AC3-01	18.5	132	150	2.5	20	3.0
AC3-02	17.5	100	150	2.2	20	3.0
AC3-03	22	102	150	2.1	20	3.0
AC3-04	28	105	150	1.8	20	3.0
AC3-05	35.5	112	150	1.5	20	3.0
AC3-06	43	106	150	1.2	20	3.0
AC3-07	1.65	100	800	6.0	20	1.2
AC3-08	2.55	100	800	5.0	20	1.2
AC3-09	3.85	100	800	5.0	20	1.2
AC3-10	5.45	100	800	4.9	20	1.2
AC3-11	5.6	100	800	4.9	20	1.2
AC3-12	7.15	100	800	4.8	20	1.2
AC3-13	8.8	100	800	4.8	20	1.2
AC3-14	9.85	100	800	4.7	20	1.2
AC3-15	12.55	100	800	4.6	20	1.2

Inductance tolerance: Standard tolerance on inductance = 20%

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

J = 5%, **K** = 10%,

Example: AC3-04J for 28 nH $\pm$ 5%

CUSTOM DESIGNS & MODIFICATIONS:

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

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