



AC2 SERIES



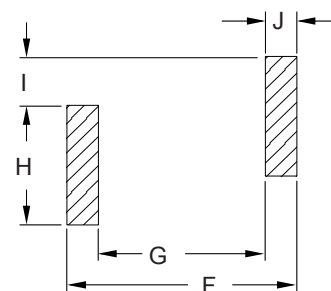
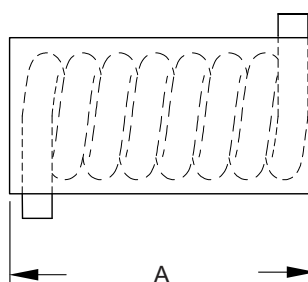
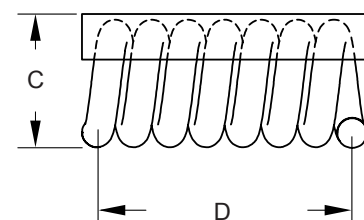
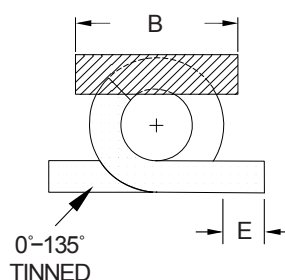
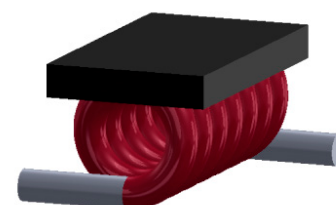
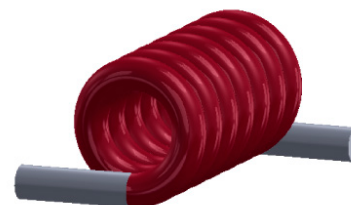
HIGH FREQUENCY

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	F (REF)	G (REF)	H (REF)	I (REF)	J (REF)
AC2-01 thru AC2-05	.145	.120	.125	.115 ± .010	.023 ± .015	.165	.065	.130	.110	.050
AC2-06 thru AC2-10	.270	.120	.125	.230 ± .010	.023 ± .015	.285	.185	.130	.110	.050
AC2-11 thru AC2-13	.260	.240	.270	.200 ± .010	.035 ± .010	.265	.145	.280	.080	.060

*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 (mOhm)	Current max (A)
AC2-01	2.5	145	150	12.5	1.1	4
AC2-02	5.0	140	150	6.5	1.8	4
AC2-03	8.0	140	150	5.0	2.6	4
AC2-04	12.5	137	150	3.3	3.4	4
AC2-05	18.5	132	150	2.5	3.9	4
AC2-06	17.5	100	150	2.2	4.5	4
AC2-07	22.0	102	150	2.1	5.2	4
AC2-08	28.0	105	150	1.8	6.0	4
AC2-09	35.5	112	150	1.5	6.8	4
AC2-10	43.0	106	150	1.2	7.9	4
AC2-11	25.0	N/A	N/A	N/A	4.2	10
AC2-12	50.0	N/A	N/A	N/A	5.0	9
AC2-13	60.0	N/A	N/A	N/A	10.0	6

Inductance tolerance: Standard tolerance on inductance = 20%

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

G = 2%, **J** = 5%, **K** = 10%,

Example: AC2-08J for 28 nH ± 5%

CUSTOM DESIGNS & MODIFICATIONS:

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

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