



S62 100 SERIES PACKAGE A1



ALL PARTS AVAILABLE AS CLASS S OR CLASS B

MIL-STD-981

ELECTRICAL SPECIFICATIONS

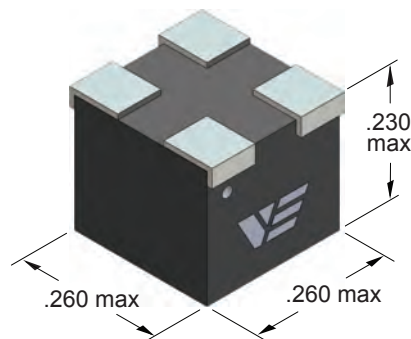
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +135°C
- **Temperature Rise @ 90°C:** < 30°C
- **Inductance at rated DC:** $\geq 70\%$ of initial
- **Dielectric Withstanding Voltage:** 500 V_{RMS}
- **Delta L:** $\pm 2\%$ over operating temperature range
- **Low Outgassing:** TML <1%
- **Overload Current:** 1.5 times rated current
- **Different electrical values available upon request**

FEATURES

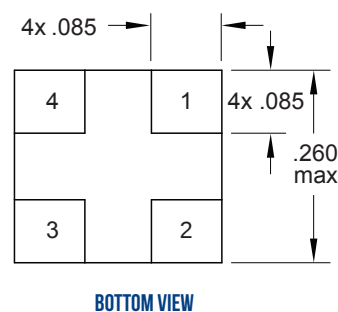
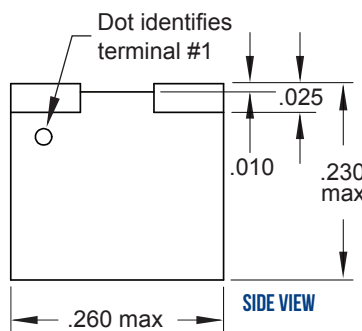
- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-STD-981** specifications
- **Terminations:** Tin-lead
- **Welded Internal Connections**
- **Moisture, Shock and Immersion Resistant**
- **Self Shielding**
- **Other termination finishes available**

APPLICATIONS

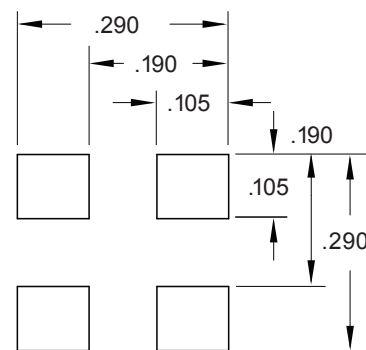
- Filter inductors
- Power supplies
- Ripple suppressors
- DC/DC converters
- SEPIC converters

THRU-HOLE &
GULL-WING PACKAGES
ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

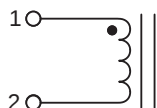


IN	MM
0.290	7.37
0.260	6.60
0.230	5.84
0.190	4.83
0.105	2.67
0.085	2.16
0.025	0.64
0.010	0.25



RECOMMENDED MOUNTING PAD CIRCUIT SIDE

SCHEMATIC

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DATA TABLE

Vanguard P/N	Inductance (uH $\pm 10\%$)	DCR max (Ohms)	Rated DC Current (mA)
S62101	15	0.11	820
S62102	18	0.12	750
S62103	20	0.15	720
S62104	22	0.16	690
S62105	25	0.17	650
S62106	27	0.18	610
S62107	30	0.22	580
S62108	33	0.25	550
S62109	39	0.27	520
S62110	47	0.30	460
S62111	50	0.32	440
S62112	56	0.33	430
S62113	68	0.36	390
S62114	75	0.38	370
S62115	82	0.39	350
S62116	100	0.71	320
S62117	120	0.78	290
S62118	150	0.88	260
S62119	180	1.20	240
S62120	200	1.25	230

Vanguard P/N	Inductance (uH $\pm 10\%$)	DCR max (Ohms)	Rated DC Current (mA)
S62121	220	1.3	220
S62122	250	1.6	200
S62123	270	1.8	190
S62124	300	1.9	180
S62125	330	2.0	170
S62126	350	2.5	165
S62127	390	2.8	160
S62128 ♦	470	3.0	140
S62129 ♦	500	3.1	135
S62130 ♦	560	3.3	130
S62131 ♦	680	4.7	120
S62132 ♦	750	5.1	115
S62133 ♦	820	5.2	110
S62134 ♦	1000	7.3	100
S62135 ♦	1200	8.0	93
S62136 ♦	1500	11.0	83
S62137 ♦	1800	12.1	75
S62138 ♦	2000	15.0	70
S62139 ♦	2200	16.8	68
S62140 ♦	2700	18.6	62
S62141 ♦	3000	24.7	59

Inductance measured at 10 kHz, 0.1 V_{RMS}

♦ **Note:** Part numbers noted are MIL-STD-981, Class "S" compliant with the exception of wire size. All other aspects are met 100%. Contact Vanguard for more information

CUSTOM DESIGNS & MODIFICATIONS:

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

S62100 SERIES

PACKAGE A1

