



SPL24/SPL25 SERIES

SHIELDED SURFACE MOUNT



ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +135°C
- **Temperature Rise @ 90°C:** < 40°C
- **Inductance at rated DC:** > 70% of initial
- **Dielectric Withstanding Voltage:** 100 V_{AC}
- **Different electrical values available upon request**

FEATURES

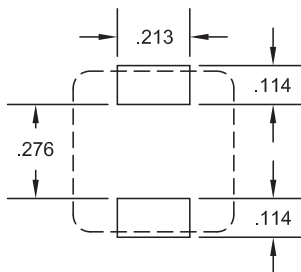
- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-STD-981** specifications
- **Terminations:** Tin-lead
- **Moisture, Shock and Immersion Resistant**
- **Magnetically Shielded**
- **Other termination finishes available**

APPLICATIONS

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

MIL-STD-981 Testing:

Add "-S" suffix for Class S Testing
Add "-B" suffix for Class B Testing
Add "-E" suffix for Engineering Unit

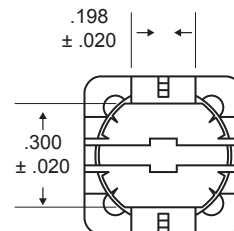
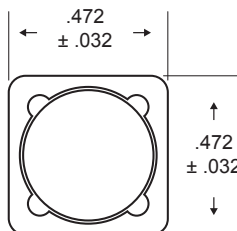


SPL24 / SPL25
RECOMMENDED PAD LAYOUT

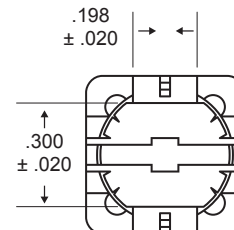
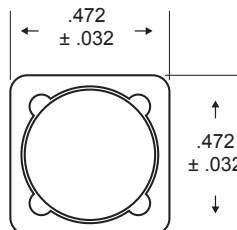
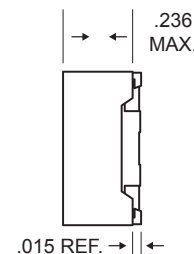
ALL PARTS AVAILABLE AS CLASS S OR CLASS B

MIL-STD-981

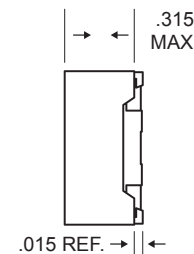
Inductance Range (uH)	DCR max (Ohms)	Current Rating (mA)
2.0 to 1000.00	0.015 to 2.000	.400 to 8500



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DATA TABLE

Vanguard P/N	Inductance $\pm 20\%$ (μ H)	Test Freq (KHz)	DCR max (Ohms)	Rated Current (Amps)
SPL24-01	2.2	100	0.020	7.00
SPL24-02	3.5	100	0.030	5.50
SPL24-03	4.7	100	0.040	5.00
SPL24-04	6.8	100	0.050	4.50
SPL24-05	10.0	100	0.055	4.00
SPL24-06	12.0	1.0	0.060	3.50
SPL24-07	15.0	1.0	0.065	3.30
SPL24-08	18.0	1.0	0.070	3.00
SPL24-09	22.0	1.0	0.075	2.80
SPL24-10	27.0	1.0	0.085	2.30
SPL24-11	33.0	1.0	0.095	2.10
SPL24-12	39.0	1.0	0.105	2.00
SPL24-13	47.0	1.0	0.115	1.80
SPL24-14	56.0	1.0	0.135	1.60
SPL24-15	68.0	1.0	0.170	1.50
SPL24-16	82.0	1.0	0.190	1.40
SPL24-17	100.0	1.0	0.210	1.30
SPL24-18	120.0	1.0	0.250	1.10
SPL24-19	150.0	1.0	0.300	1.00
SPL24-20	180.0	1.0	0.350	0.90
SPL24-21	220.0	1.0	0.420	0.80
SPL24-22	270.0	1.0	0.510	0.75
SPL24-23	330.0	1.0	0.600	0.70
SPL24-24	390.0	1.0	0.750	0.65
SPL24-25	470.0	1.0	0.820	0.60
SPL24-26	560.0	1.0	1.000	0.55
SPL24-27	680.0	1.0	1.300	0.50
SPL24-28	820.0	1.0	1.650	0.45
SPL24-29	1000.0	1.0	2.000	0.40

CUSTOM DESIGNS & MODIFICATIONS:

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

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DATA TABLE

Vanguard P/N	Inductance $\pm 20\%$ (μ H)	Test Freq (KHz)	DCR max (Ohms)	Rated Current (Amps)
SPL25-01	2.2	100	0.015	8.50
SPL25-02	3.3	100	0.018	7.50
SPL25-03	4.7	100	0.022	6.80
SPL25-04	6.8	100	0.030	6.20
SPL25-05	10.0	100	0.040	5.40
SPL25-06	12.0	1.0	0.045	4.90
SPL25-07	15.0	1.0	0.048	4.50
SPL25-08	18.0	1.0	0.052	3.90
SPL25-09	22.0	1.0	0.055	3.60
SPL25-10	27.0	1.0	0.060	3.40
SPL25-11	33.0	1.0	0.065	3.00
SPL25-12	39.0	1.0	0.080	2.80
SPL25-13	47.0	1.0	0.100	2.50
SPL25-14	56.0	1.0	0.120	2.30
SPL25-15	68.0	1.0	0.140	2.10
SPL25-16	82.0	1.0	0.170	1.90
SPL25-17	100.0	1.0	0.220	1.70
SPL25-18	120.0	1.0	0.250	1.60
SPL25-19	150.0	1.0	0.320	1.40
SPL25-20	180.0	1.0	0.360	1.30
SPL25-21	220.0	1.0	0.390	1.20
SPL25-22	270.0	1.0	0.520	1.10
SPL25-23	330.0	1.0	0.620	1.00
SPL25-24	390.0	1.0	0.750	0.90
SPL25-25	470.0	1.0	0.980	0.80
SPL25-26	560.0	1.0	1.150	0.75
SPL25-27	680.0	1.0	1.220	0.70
SPL25-28	820.0	1.0	1.400	0.65
SPL25-29	1000.0	1.0	1.540	0.62

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