



SIT 100 SERIES PACKAGE A1



ALL PARTS AVAILABLE AS CLASS S OR CLASS B

MIL-STD-981

Inductance Range (mH)	DCR max (Ohms)	Total Current max (Arms)
0.077 to 5.3	0.5 to 3.1	0.31 to 0.74

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Temperature Rise @ 90°C:** < 30°C
- **Dielectric Withstanding Voltage:** 300 V_{AC}
- **Resistance to Soldering Heat:** 265°C for 10 secs
- **Compliant with Nasa outgassing limits**
- **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**
- **Magnetically Shielded**
- **Other termination finishes available**

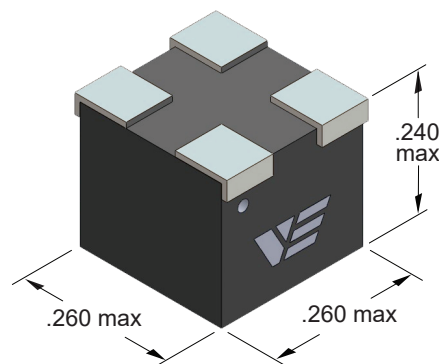
APPLICATIONS

- Filter inductors
- Step down transformers
- Ripple suppressors
- Power supplies
- Common mode chokes
- DC/DC converters
- Isolation transformers
- SEPIC converters
- Step up transformers

MIL-STD-981 Testing

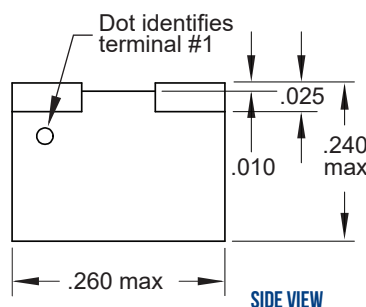
Add "-S" suffix for Class S Screening

Add "-B" suffix for Class B Screening

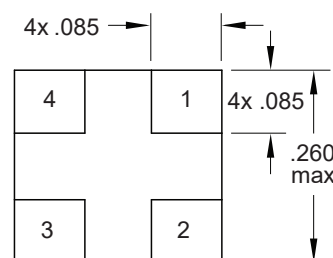


THRU-HOLE &
GULL-WING PACKAGES
ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

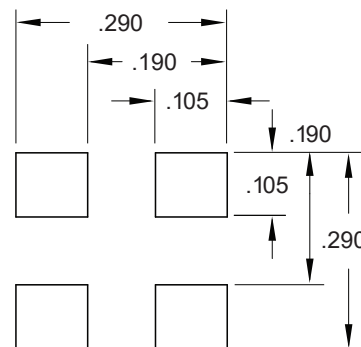


SIDE VIEW



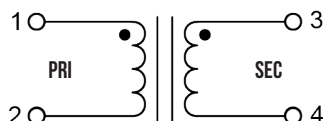
BOTTOM VIEW

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	Volt-Sec, v-sec, min	Turns Ratio	Primary Inductance mH (Ref)	DCR max (Ohms)		Total Current $I_p + I_s$ Arms, max
				Primary	Secondary	
SIT101	30	1:1.0	5.3	1.5	1.5	0.31
SIT102	30	1:1.1	5.3	1.5	2.2	0.31
SIT103	30	1:1.2	5.3	1.5	2.4	0.31
SIT104	30	1:2.0	5.3	1.5	3.1	0.31
SIT105	30	1:0.5	5.3	1.5	0.72	0.31
SIT106	20	1:1.0	2.3	1.0	1.0	0.38
SIT107	20	1:1.1	2.3	1.0	1.1	0.38
SIT108	20	1:1.2	2.3	1.0	1.2	0.38
SIT109	20	1:2.0	2.3	1.0	2.1	0.38
SIT110	20	1:0.5	2.3	1.0	0.51	0.38
SIT111	10	1:1.0	0.59	0.5	0.50	0.53
SIT112	10	1:1.1	0.59	0.5	0.55	0.53
SIT113	10	1:1.2	0.59	0.5	0.60	0.53
SIT114	10	1:2.0	0.59	0.5	1.0	0.53
SIT115	10	1:0.5	0.59	0.5	0.26	0.53
SIT121	30	1:1.0	0.70	1.5	1.5	0.43
SIT122	30	1:1.1	0.70	1.5	2.2	0.43
SIT123	30	1:1.2	0.70	1.5	2.4	0.43
SIT124	30	1:2.0	0.70	1.5	3.1	0.43
SIT125	30	1:0.5	0.70	1.5	0.7	0.43
SIT126	20	1:1.0	0.31	1.0	1.0	0.52
SIT127	20	1:1.1	0.31	1.0	1.1	0.52
SIT128	20	1:1.2	0.31	1.0	1.2	0.52
SIT129	20	1:2.0	0.31	1.0	2.1	0.52
SIT130	20	1:0.5	0.31	1.0	0.5	0.52
SIT131	10	1:1.0	0.077	0.5	0.5	0.74
SIT132	10	1:1.1	0.077	0.5	0.6	0.74
SIT133	10	1:1.2	0.077	0.5	0.6	0.74
SIT134	10	1:2.0	0.077	0.5	1.0	0.74

Inductance measured at 10 kHz, 0.1 V_{RMS}

CUSTOM DESIGNS & MODIFICATIONS:

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

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