SIT200 SERIES

AS9100 D CERTIFIED
ISO 9001 CERTIFIED
ITAR COMPLIANT

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** −55°C to +125°C
- **Storage Temperature:** −60°C to +130°C
- **Temperature Rise @ 90°C:** < 30°C
- **Inductance at rated DC:** 60%
- **Dielectric Withstanding Voltage:** 300 V_{AC}
- **Resistance to Soldering Heat:** 265°C for 10 secs
- **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**
- **NASA outgassing compliant per ASTM E595** (TML <1%, CVCM <0.1%)

APPLICATIONS

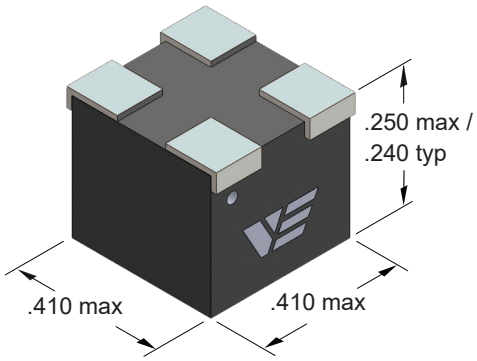
- Filter inductors
- Ripple supressors
- Common mode chokes
- Isolation transformers
- Step up transformers
- Step down transformers
- Power supplies
- DC/DC converters
- SEPIC converters

MIL-STD-981 Testing:
Add -"S" suffix for Class S Testing
Add -"B" suffix for Class B Testing

ALL PARTS AVAILABLE AS CLASS S OR CLASS B — MIL-STD-981

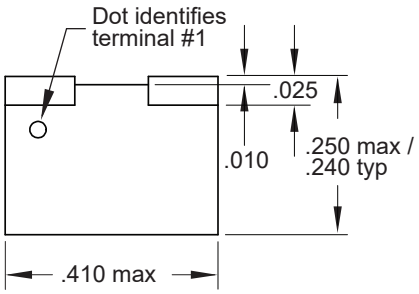
Inductance Range (mH)	DCR max (Ohms)	Total Current max (Arms)
0.12 to 6.90	0.15 to 3.10	0.65 to 1.30

ALL DIMENSIONS: INCHES

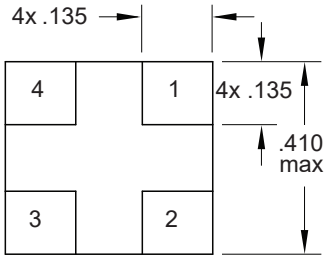


THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

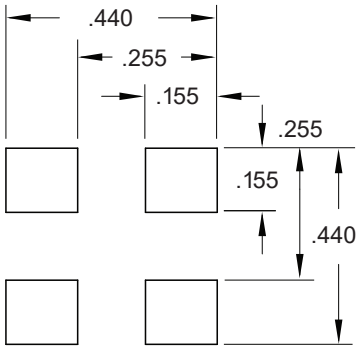


SIDE VIEW



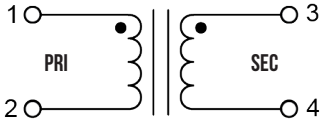
BOTTOM VIEW

IN	MM
0.440	11.18
0.410	10.41
0.255	6.48
0.250	6.35
0.240	6.09
0.155	3.94
0.135	3.43
0.025	0.64
0.010	0.25



RECOMMENDED MOUNTING PAD CIRCUIT SIDE

SCHEMATIC



SIT200 SERIES

REV B

DATA TABLE

Vanguard P/N	Volt-Sec, v-usec, min	Turns Ratio	Primary Inductance mH (Ref)	DCR max (Ohms)		Total Current Ip + Is Arms, max
				Primary	Secondary	
SIT201	60	1:1.0	6.9	0.77	0.77	0.65
SIT202	60	1:1.1	6.9	0.77	0.85	0.65
SIT203	60	1:1.2	6.9	0.77	0.92	0.65
SIT204	60	1:2.0	6.9	0.77	3.10	0.65
SIT205	60	1:0.5	6.9	0.77	0.39	0.65
SIT206	40	1:1.0	2.9	0.51	0.51	0.79
SIT207	40	1:1.1	2.9	0.51	0.56	0.79
SIT208	40	1:1.2	2.9	0.51	0.62	0.79
SIT209	40	1:2.0	2.9	0.51	1.10	0.79
SIT210	40	1:0.5	2.9	0.51	0.30	0.79
SIT211	20	1:1.0	0.81	0.27	0.27	1.1
SIT212	20	1:1.1	0.81	0.27	0.30	1.1
SIT213	20	1:1.2	0.81	0.27	0.32	1.1
SIT214	20	1:2.0	0.81	0.27	0.55	1.1
SIT215	20	1:0.5	0.81	0.27	0.15	1.1
SIT221	60	1:1.0	0.97	0.77	0.77	0.78
SIT222	60	1:1.1	0.97	0.77	0.85	0.78
SIT223	60	1:1.2	0.97	0.77	0.92	0.78
SIT224	60	1:2.0	0.97	0.77	3.10	0.78
SIT225	60	1:0.5	0.97	0.77	0.40	0.78
SIT226	40	1:1.0	0.42	0.51	0.51	0.96
SIT227	40	1:1.1	0.42	0.51	0.56	0.96
SIT228	40	1:1.2	0.42	0.51	0.62	0.96
SIT229	40	1:2.0	0.42	0.51	1.10	0.96
SIT230	40	1:0.5	0.42	0.51	0.30	0.96
SIT231	20	1:1.0	0.12	0.27	0.27	1.3
SIT232	20	1:1.1	0.12	0.27	0.30	1.3
SIT233	20	1:1.2	0.12	0.27	0.32	1.3
SIT234	20	1:2.0	0.12	0.27	0.55	1.3
SIT235	20	1:0.5	0.12	0.27	0.16	1.3

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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REV B