



## IT200 SERIES

QPL: M27 COTS



### MIL-PRF-27

### 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<sub>AC</sub>
- **Resistance to Soldering Heat:** 265°C for 10 secs
- **Different electrical values available upon request**

### FEATURES

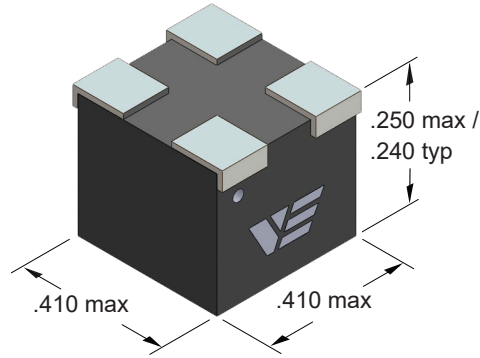
- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-PRF-27** specifications
- **Terminations:** Tin-lead
- **Welded Internal Connections**
- **Moisture, Shock, and Immersion Resistant**
- **Magnetically Shielded**
- **Other termination finishes available**

### APPLICATIONS

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

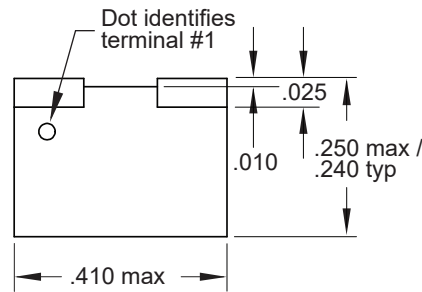
Inductance Range (mH)	DCR max (Ohms)	Total Current max (Arms)
0.077 to 5.3	0.5 to 1.5	0.31 to 0.74

ALL DIMENSIONS: INCHES

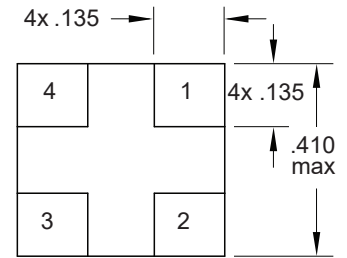


THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

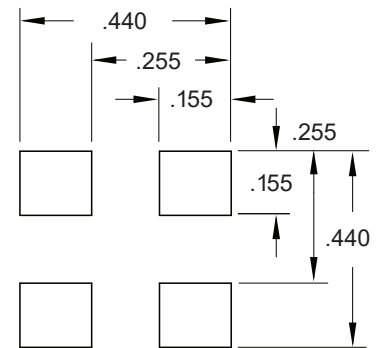


SIDE VIEW



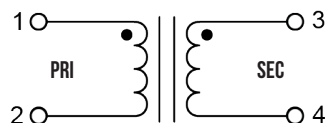
BOTTOM VIEW

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





### 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	
IT201	60	1:1.0	6.9	0.77	0.77	0.65
IT202	60	1:1.1	6.9	0.77	0.85	0.65
IT203	60	1:1.2	6.9	0.77	0.92	0.65
IT204	60	1:2.0	6.9	0.77	3.10	0.65
IT205	60	1:0.5	6.9	0.77	0.39	0.65
IT206	40	1:1.0	2.9	0.51	0.51	0.79
IT207	40	1:1.1	2.9	0.51	0.56	0.79
IT208	40	1:1.2	2.9	0.51	0.62	0.79
IT209	40	1:2.0	2.9	0.51	1.10	0.79
IT210	40	1:0.5	2.9	0.51	0.30	0.79
IT211	20	1:1.0	0.81	0.27	0.27	1.1
IT212	20	1:1.1	0.81	0.27	0.30	1.1
IT213	20	1:1.2	0.81	0.27	0.32	1.1
IT214	20	1:2.0	0.81	0.27	0.55	1.1
IT215	20	1:0.5	0.81	0.27	0.15	1.1
IT221	60	1:1.0	0.97	0.77	0.77	0.78
IT222	60	1:1.1	0.97	0.77	0.85	0.78
IT223	60	1:1.2	0.97	0.77	0.92	0.78
IT224	60	1:2.0	0.97	0.77	3.10	0.78
IT225	60	1:0.5	0.97	0.77	0.40	0.78
IT226	40	1:1.0	0.42	0.51	0.51	0.96
IT227	40	1:1.1	0.42	0.51	0.56	0.96
IT228	40	1:1.2	0.42	0.51	0.62	0.96
IT229	40	1:2.0	0.42	0.51	1.10	0.96
IT230	40	1:0.5	0.42	0.51	0.30	0.96
IT231	20	1:1.0	0.12	0.27	0.27	1.3
IT232	20	1:1.1	0.12	0.27	0.30	1.3
IT233	20	1:1.2	0.12	0.27	0.32	1.3
IT234	20	1:2.0	0.12	0.27	0.55	1.3
IT235	20	1:0.5	0.12	0.27	0.16	1.3

Inductance measured at 10 kHz, 0.1 V<sub>RMS</sub>

#### CUSTOM DESIGNS & MODIFICATIONS:

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

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