

SPT SERIES
PULSE TRANSFORMER

MIL-STD-981

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +135°C
- **Bandwidth:** 50 KHz - 90 MHz
- **Interwinding Capacitance:** 18 pF
- **Low Leakage Inductance:** 150 nH max
- **Insulation Resistance:** 10K MOhms min
- **Dielectric Withstanding Voltage:** 500 V_{Ac} min
- **Different electrical values available upon request**
- **Order to Class S or Class B**
- **Outgassing compliant per ASTM E595**
(TML <1%, CVCM <0.1%)

FEATURES

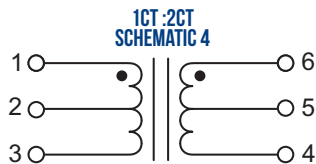
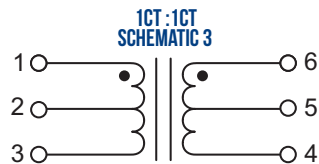
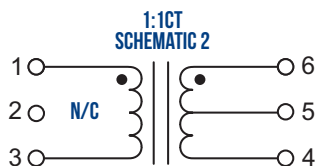
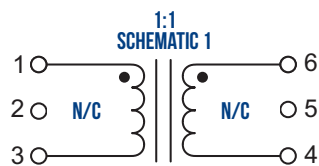
- **Compact, low profile, ideal for automatic placement**
- **Built to meet MIL-STD-981 specification**
- **Terminations:** Tin-lead
- **Other termination finishes available upon request**
- **Welded Internal Connections**
- **Moisture, Shock and Immersion Resistant**
- **Resistance to Soldering Heat:** 265°C for 10 secs

MIL-STD-981 Testing:

Add "-S" suffix for Class S Testing

Add "-B" suffix for Class B Testing

Add "-E" suffix for Engineering Unit

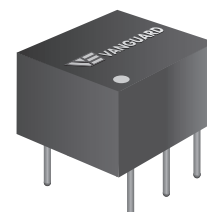
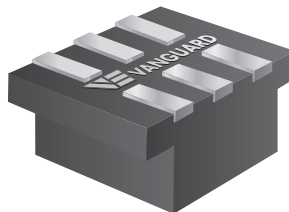


CUSTOM DESIGNS & MODIFICATIONS:

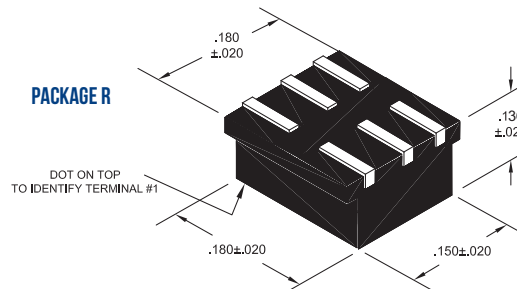
Other electrical configurations and performance characteristics are available in various sizes and package types

MARKINGS: LASER OR INK
ALL DIMENSIONS: INCHES

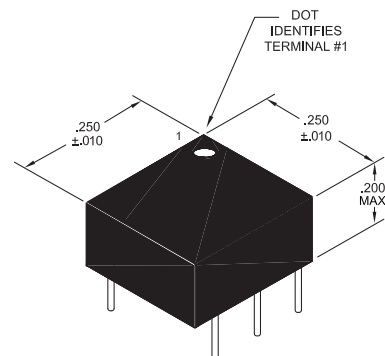
GULLWING PACKAGES
ALSO AVAILABLE



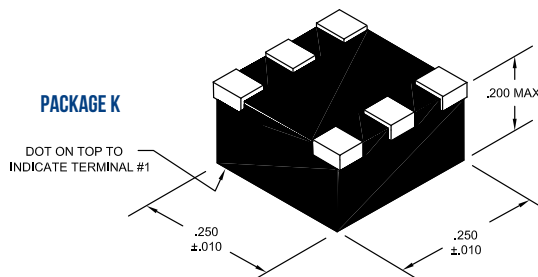
PACKAGE R



PACKAGE P



PACKAGE K



SPT SERIES



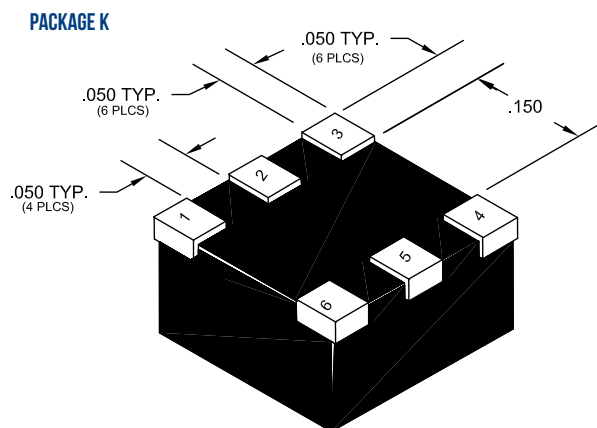
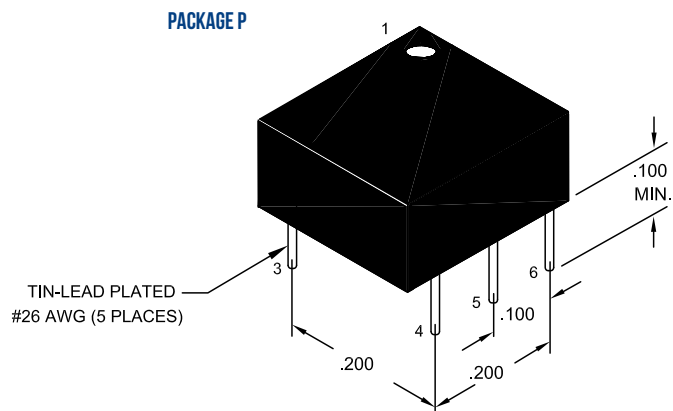
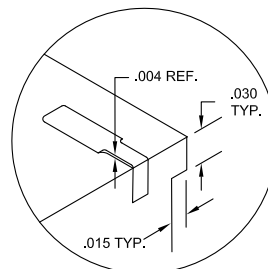
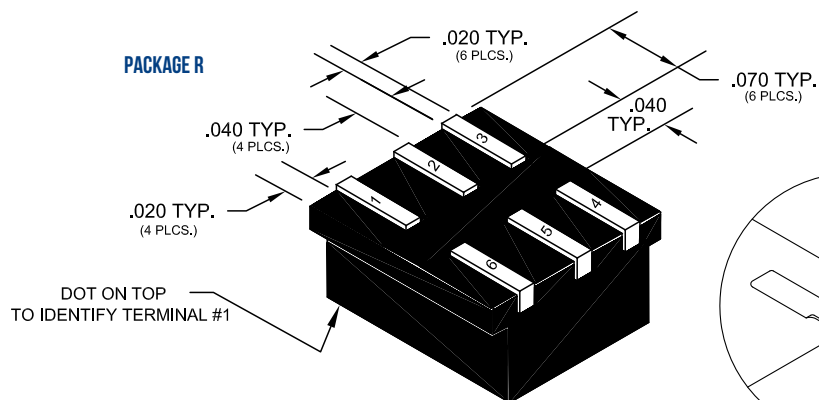


DATA TABLE

Vanguard P/N	Turns Ratio	Inductance min (uH)	Pri. ET min (V-us)	DCR Pri. max (ohms)	DCR Sec. max (ohms)	Schematic	Package
SPT101*	1:1	80	1.5	0.22	0.22	1	R
SPT102*	1:1CT	80	2	0.25	0.25	2	R
SPT103*	1CT:1CT	70	2.5	0.25	0.25	3	R
SPT201	1:1	100	2	0.20	0.20	1	K
SPT202	1:1CT	90	2	0.20	0.20	2	K
SPT203	1CT:1CT	80	2.5	0.20	0.20	3	K
SPT204	1CT:2CT	70	2.5	0.20	0.40	4	K
SPT301	1:1	100	2	0.20	0.20	1	P
SPT302	1:1CT	90	2	0.20	0.20	2	P
SPT303	1CT:1CT	80	2.5	0.20	0.20	3	P
SPT304	1CT:2CT	70	2.5	0.20	0.40	4	P

Inductance measured at 100 kHz, 0.1 V_{RMS}

*Interwinding capacitance: 15 pF max



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