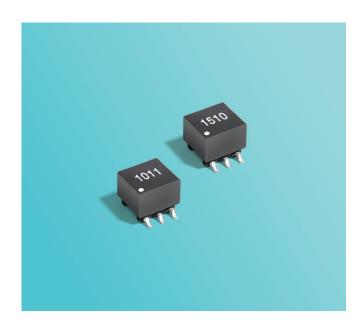
Outgassing Compliant Gate Drive Transformers



- Designed for high switching speed, transformer coupled MOSFET and IGBT gate drive circuits.
- Operating frequency: 50 kHz 2 MHz
- Primary to secondary isolation: 1500 Vdc. For 1011 and 2011, isolation between secondaries is 500 Vdc

Core material Ferrite

Terminations Tin-lead over tin over nickel over phos bronze. Other terminations are available at additional cost

Weight 535 - 615 mg

Ambient temperature -55°C to +125°C

Maximum part temperature +125°C (ambient + temp rise).

Storage temperature Component: -55°C to +125°C.

Tape and reel packaging: -55°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Packaging 250/7" reel Plastic tape: 16 mm wide, 0.36 mm thick, 20 mm pocket spacing, 5.54 mm pocket depth

Part number ¹	Turns ratio pri : sec	Primary inductance ² min (µH)	Leakage inductance ³ max (µH)	Primary DCR max (Ohms)	Secondary DCR max (Ohms)	Volt-time product (V-µsec)	SRF min ⁴ (MHz)	Capacitance pri to sec max (pF)
CP-N0531-1010SZ	1:1	296.0	1.5	0.795	0.655	25.8	1.75	14.0
CP-N0531-1510SZ	1.5:1	680.0	4.0	1.65	0.860	40.8	1.00	14.0
CP-N0531-1011SZ	1:1:1	264.0	0.30	1.50	1.50 (2-5; 3-4)	24.5	2.50	95.0
CP-N0531-2011SZ	2:1:1	330.0	0.60	1.40	0.650 (2-5); 0.790 (3-4)	24.5	2.00	18.0

1. When ordering, please specify ${\bf terminations}$ and ${\bf screening}$ codes:

CP-N0531-2011SZ

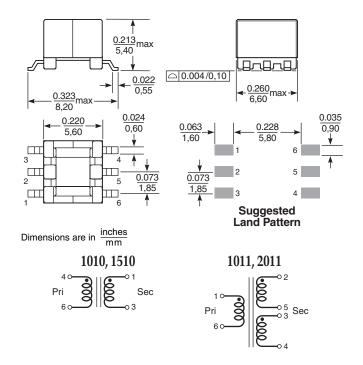
Termination: S = Tin-lead over tin over nickel over phos bronze

- T = Tin-silver-copper over tin over nickel over phos bronze
- L = Tin-silver over tin over nickel over phos bronze

Screening:

- Z = Unscreened
- H = Coilcraft CP-SA-10001 Group A
- 1 = EEE-INST-002 (Family 1) Level 1
- 2 = EEE-INST-002 (Family 1) Level 2
- 3 = EEE-INST-002 (Family 1) Level 3
- 4 = MIL-STD-981 (Family 03) Class B
- 5 = MIL-STD-981 (Family 03) Class S
- $\mathbf{F} = \text{ESCC3201}$ (F4 operational life performed at 105°C)
- Screening performed to the document's latest revision.
- · Lot qualification (Group B) available.
- Testing T and U have been replaced with more detailed codes 4, 5, and 1, 2, 3, respectively. Codes T and U can still be used, if necessary. Custom testing also available.
- 2. Inductance measured at 100 kHz,0.1 Vrms, 0 Adc
- Leakage inductance measured at 100 kHz, 0.1 Vrms with secondary pins shorted.
- SRF is for the primary, measured with the secondary shorted using an Agilent/HP 4192 or equivalent.
- 5. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.





1102 Silver Lake Road Cary, IL 60013 Phone 800-981-0363 Fax 847-639-1508 Email cps@coilcraft.com www.coilcraft-cps.com This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.

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