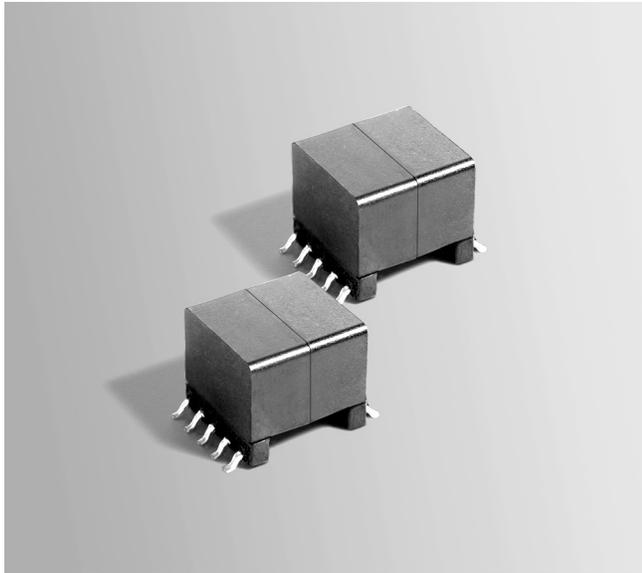


NEW!

Flyback Transformer

For TI TPS55340
DC-DC Regulator



- Developed for Texas Instruments TPS55340 Boost/SEPIC/Flyback DC-DC Regulator
- Designed to operate at 200 kHz with 2.9–32 Volts input
- 1500 Vrms, one minute isolation from primary windings to secondary windings

Core material Ferrite

Terminations RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 6.5 g

Ambient temperature –40°C to +85°C

Storage temperature Component: –40°C to +85°C.

Tape and reel packaging: –40°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)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 175 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

| Part number ¹ | Power (W) | Inductance at 0 A ² ±10% (µH) | Inductance at I _{pk} ³ min (µH) | DCR max (Ohms) ⁴ | | Leakage inductance ⁵ max (µH) | Turns ratio ⁶ pri : sec | I _{pk} ³ (A) | Output ⁷ |
|--------------------------|-----------|--|---|-----------------------------|--------|--|------------------------------------|----------------------------------|---------------------|
| | | | | pri | sec | | | | |
| NA5889-AL_ | 12 | 12 | 10.8 | 0.03 | 0.0195 | 0.140 | 1 : 0.833 | 5.5 | 12 V, 1 A |

1. When ordering, please specify **packaging** code:

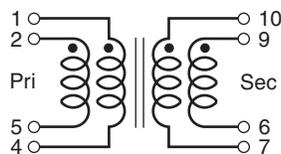
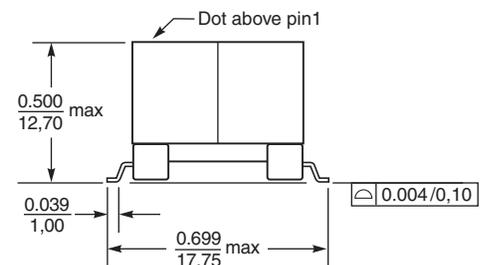
NA5889-ALD

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel).

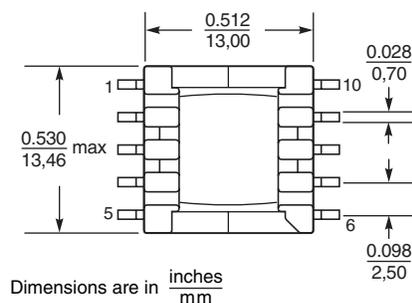
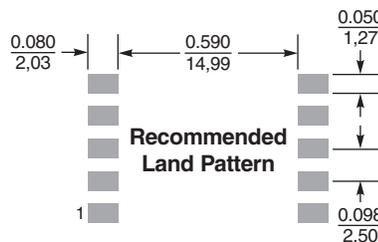
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

- Inductance measured at 200 kHz, 1.0 Vrms, 0 Adc.
- Peak primary current drawn at minimum input voltage.
- DCR for the primary and for the secondary is with windings connected in parallel.
- Leakage inductance is for the primary and is measured with the secondary shorted.
- Turns ratio is with the primary and the secondary windings connected in parallel.
- Output of the secondary is with the windings connected in parallel.
- Electrical specifications at 25°C.

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



Primary windings and secondary windings to be connected in parallel on PC board



Dimensions are in inches
mm

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