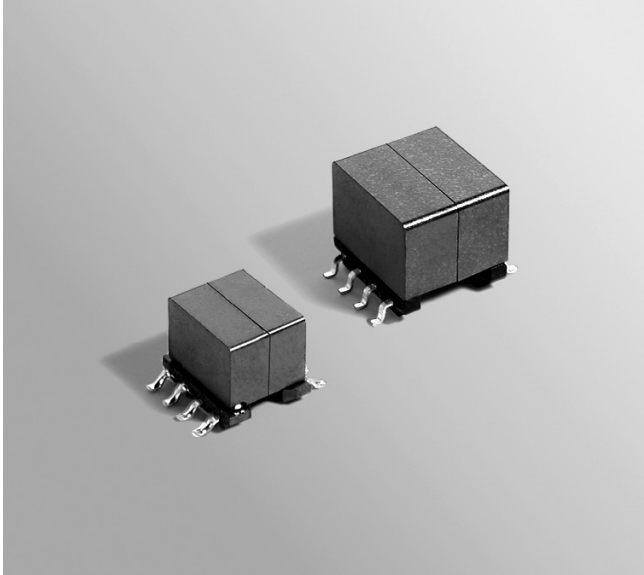


NEW!

Push-Pull Transformers

For Linear LT3999
Push-Pull DC/DC Driver

- Developed for Linear LT3999 Low Noise, 1 A, 1 MHz Push-Pull DC/DC Driver with Duty Cycle Control
- 500 Vrms, one minute isolation primary windings to secondary windings

Core material Ferrite**Terminations** RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze.**Weight** PA6381-AL, PA6383-AL: 1.9 – 2.1 g; PA6384-AL: 3.8 – 4.0 g**Ambient temperature** –40°C to +85°C**Maximum part temperature** +125°C (ambient + temp rise)**Storage temperature** Component: –40°C to +125°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)**

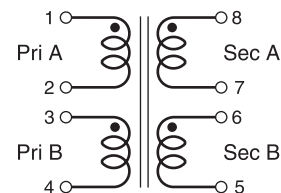
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging See dimensional drawings**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Input voltage (V)	Primary inductance (µH) ²		Leakage inductance ³ max (µH)	DCR max (Ohms) ⁴		Turns ratio ⁵ pri:sec	Output
		min	max		pri	sec		
PA6381-AL_	5.0	139	232	0.52	0.166 (A); 0.201 (B)	1.78	1 : 3.46	12 V, 0.83 A
PA6383-AL_	5.0	29.7	49.5	0.19	0.035 (A); 0.045 (B)	0.067	1 : 1.5	5 V, 1.0 A
PA6384-AL_	12	82.5	137.5	0.336	0.048 (A); 0.061 (B)	0.072	1 : 1.4	12 V, 0.83 A

1. When ordering, specify a **packaging** code:**PA6384-ALD****Packaging:** **D** = 13" machine ready reel. EIA-481 embossed plastic tape.**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 is for Pri A measured on an Agilent/HP 4284 at 100 kHz, 0.1 Vrms, 0 Adc.
 - Leakage inductance measured between pins 1 and 4 at 100 kHz, 0.1 Vrms, 0 Adc with pins 2 and 3 connected and with secondary pins shorted.
 - DCR for the secondary is for each winding.
 - Turns ratio is with the primary windings and secondary windings connected in series.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Primary windings and secondary windings to be connected in series on the PC board



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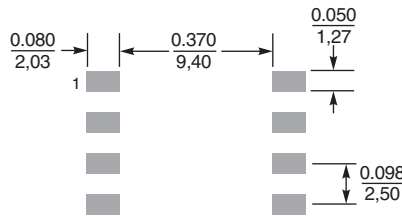
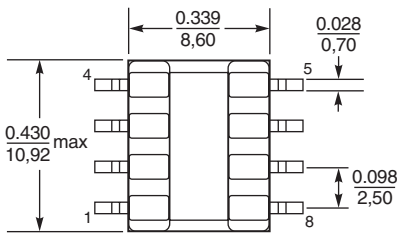
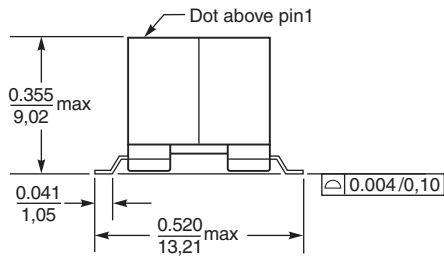
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NEW!



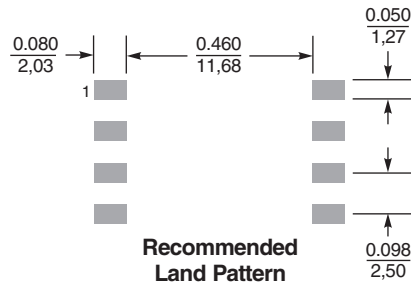
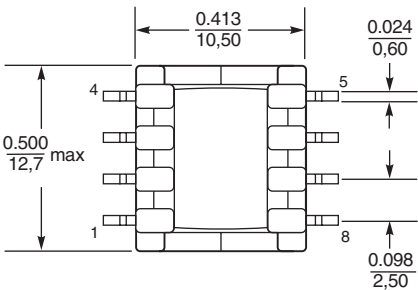
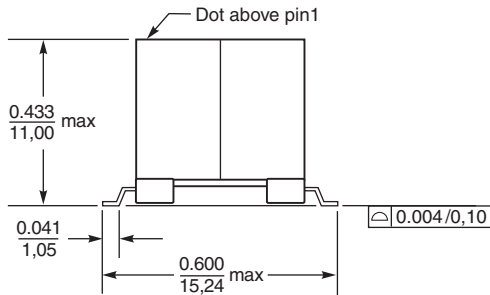
Push-Pull Transformers for Linear LT3999

PA6381-AL, PA6383-AL



Recommended Land Pattern

PA6384-AL



Recommended Land Pattern

Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Packaging

PA6381-AL, PA6383-AL 350 per 13" reel Plastic tape: 32 mm wide, 0.42 mm thick, 20 mm pocket spacing, 9.16 mm pocket depth

PA6384-AL 200 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 24 mm pocket spacing, 11.2 mm pocket depth



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