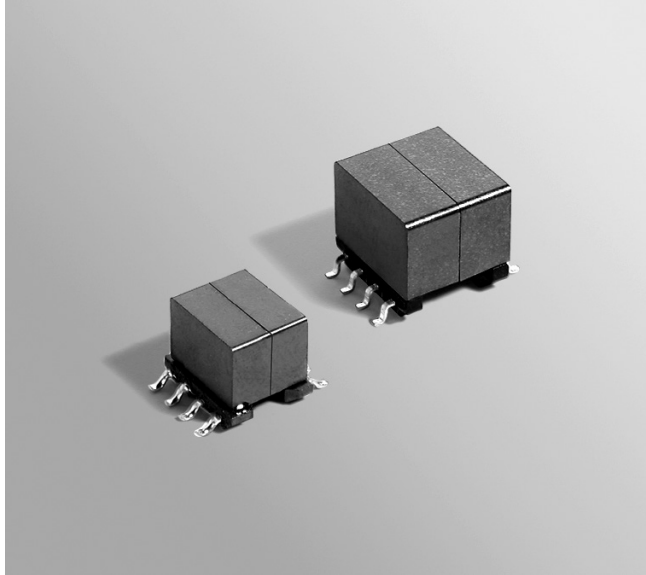


# Push-Pull Transformers

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
- Three output power versions: 1 W (12 V, 0.083 A), 5 W (5 V, 1 A), and 10 W (12 V, 0.83 A)

**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)**

10.06 per billion hours / 9.940E+07 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 <sup>1</sup>	Input voltage (V)	Primary inductance (μH) <sup>2</sup>		Leakage inductance <sup>3</sup> max (μH)	DCR max <sup>4</sup> (Ohms)		Volt-time product <sup>5</sup> (V-μsec)	Turns ratio <sup>6</sup> pri:sec	Output
		min	max		pri	sec			
PA6381-AL_	5.0	139	232	0.520	0.166 (A); 0.201 (B)	1.78	26	1:3.46	12 V, 0.083 A
PA6383-AL_	5.0	29.7	49.5	0.190	0.035 (A); 0.045 (B)	0.067	12	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	22	1:1.4	12 V, 0.83 A

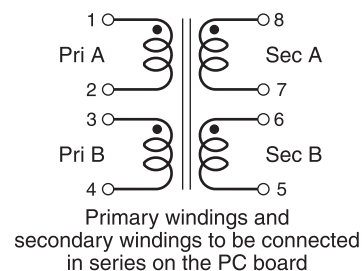
1. When ordering, specify a **packaging** code:

**PA6384-ALD**

**Packaging:** D = 13" machine ready reel. EIA-481 embossed plastic tape. Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

- 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.
- Volt-time product is for Primary A, between pin 1 and 2.
- 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.



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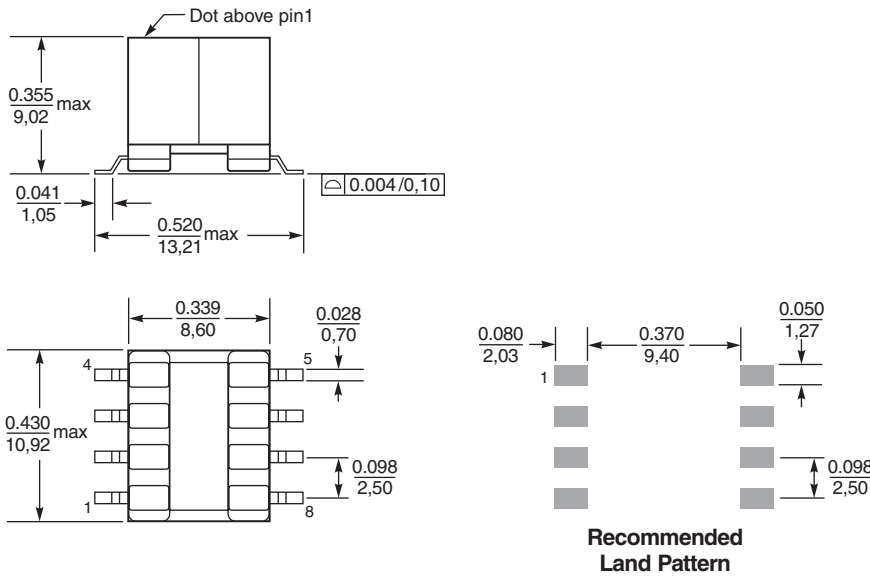
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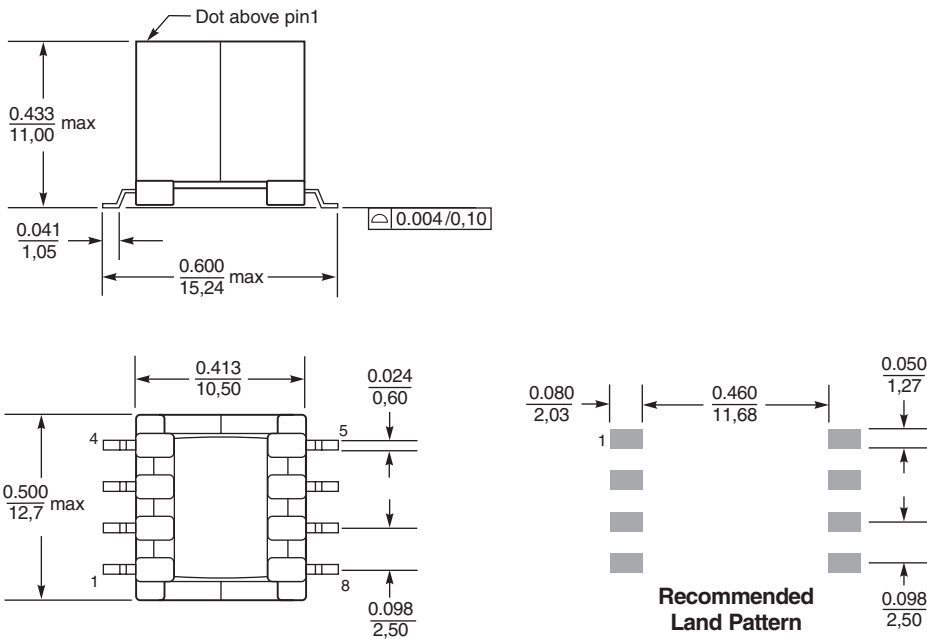


# Push-Pull Transformers for Linear LT3999

## PA6381-AL, PA6383-AL



## PA6384-AL



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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