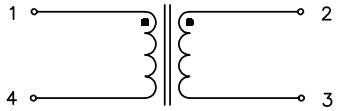
High Frequency Wire Wound Transformers

MiniFlyback SMT Platform - PGT6209NL

Pulse
a YAGEO company

- **Topology:** *Flyback or Flybuck*
- **Footprint:** *5.5*5.4mm Max*
- **Height:** *3.1mm Max*
- **Power Range:** *Up to 3W*

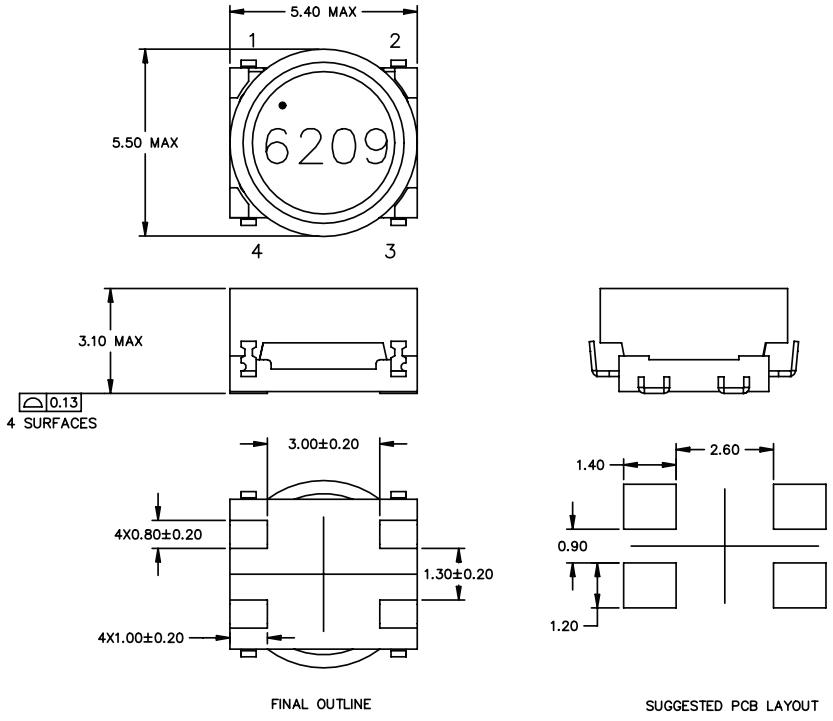
Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C				Schematic
PGT6209NL	INDUCTANCE 100KHz, 0.1V	(1-4)	33.0 ±15% µH	
	Ldc	(1-4)	21 uH MIN. 0.71A	
	LK.INDUCTANCE	(1-4) PIN 2,3 SHORTED	0.65 µH MAX	
	DCR	1-4	0.95 Ω MAX	
		2-3	0.95 Ω MAX	
	HIPOT	Pri-Sec	1.65KVdc 6S	
	K1 Factor	260		

Notes:

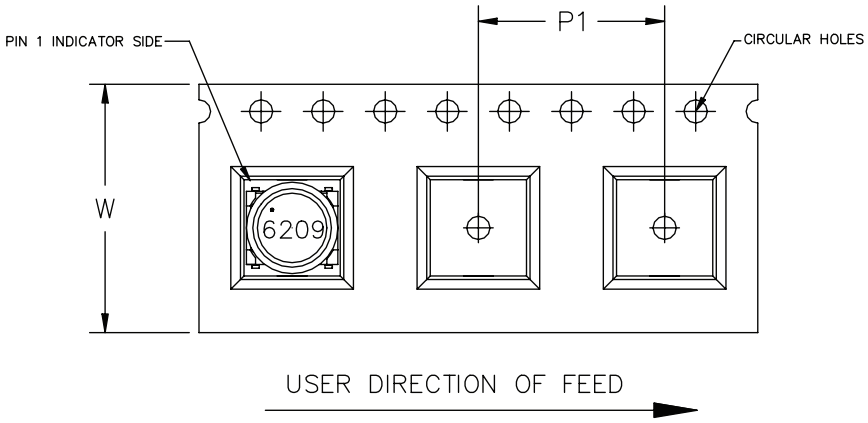
1. 1. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
2. For flyback topology applications, it is necessary to ensure that the transformer willnot saturate in the application. The peak flux density (Bpk) should remain below 2400Gauss. To calculate the peak flux density use the following formula: Bpk (Gauss) = K1_Factor * Ipk(A)
3. In high volt-sec applications, it is important to calculate the core loss of the transformer Approximate transformer core loss can be calculated as: CoreLoss (W) = 2.5E-12*(Freq_KHz)$^{1.88}$ *(ΔB_mT) $^{2.52}$ where ΔB can be calculated as: For Flyback Topology: ΔB _Gauss= K1_Factor * ΔI(A)
4. Optional Tape & Reel packing can be ordered by adding a "T" suffix to the part number (i.e. PGT6209NL becomes PGT6209NLT). Pulse complies to industry standard tape and reel specification EIA481.

Mechanical

PGT6209NL



TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST						
PART NUMBER	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P_1	W	K_0	PCS/REEL
PGT6209NL	Ø330	16.4	12	16	3.5	1200

For More Information:

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