

- Height: 5.5mm Max
- Footprint: 8.4mm x 7.2mm
- Max Current Rating: up to 20A
- Frequency Range: 50kHz to 1MHz

Electrical Specifications @ 25 °C – Operating Temperature $-55$ °C to $+125$ °C <sup>1</sup>								
		Current Secondary DCR (m $\Omega$ MAX)		C MAX)	Hipot			
Part	Turns	Rating	Inductance	Primary	Secondary	(VPMC)		
Number	er Ratio		(A) (mH MIN)	(8-7)	(1-3)	· MM3		
PL2264	1:100	20	2.00	0.75	5500	500		

1. The temperature of the component (ambient temperature plus temperature rise) must be within the specified operating temperature range. Notes:

2. The maximum current rating is based upon temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C with no airflow when both one turn windings connected in parallel.

3. To calculate the value of the terminating resistor (Rt) use the following formula: RT ( $\Omega$ ) = Vref \* N / (lpeak\_primary).

4. The peak flux density of the device must remain below 2000 Gauss. To calculate the peak flux density for uni-polar current use following formula: BPK = 37.59 \* (Duty\_Cycle\_Max) \* 105 / (N \* Freq\_kHz) \* for bi-polar current applications divide BPK (as calculated above) by 2.

5. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PL2264 becomes PL2264T).

6. The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "NL" suffix, but an RoHS compliant version is required, please contact iNRCORE for availability.

7. This part is limited by core dissipation. The core can be run at 2000 gauss bipolar at frequencies up to 300 kHz, after 300 kHz the flux density recommended limits are as follows: 400kHz-1200 gausses, 500kHz-1000 gausses, 750kHz- 900 gausses, 1 MHz-800 gausses. Bmax can be doubled for unipolar applications, as delta B is halved.









Tin/Lead	Recommended	<b>Reflow Pro</b>	ofile (Based	on J-STD-020D
They sound	nocommonaca		1110 100000	

T <sub>SMIN</sub> (°C)	T <sub>SMAX</sub> (°C)	T∟ (°C)	T <sub>P</sub> (°C MAX)	t <sub>s</sub> (s)	t <sub>L</sub> (s)	tp (s MAX)	Ramp-up rate (T <sub>L</sub> to T <sub>P</sub> )	Ramp-down rate (T <sub>P</sub> to T <sub>L</sub> )	Time 25°C to peak temperature (s MAX) 360	
100	150	183	235	60-120	60-150	20	3°C/s MAX	6°C/s MAX		

Notes:

1. All temperatures measured on the package leads.

2. Maximum times of reflow cycle: 2.

## **For More Information**

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