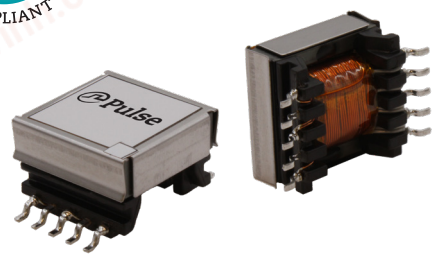
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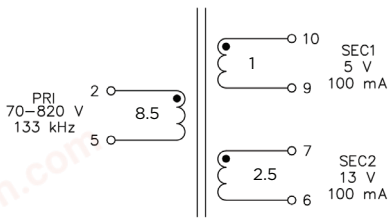
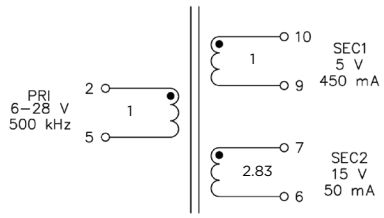
High Frequency Wire Wound Transformers

EFD15 flyback transformer – pin 5+5

Pulse
a YAGEO company



- *4000Vrms Hi-Pot*
- *Power Range: Up to 12.5W*
- ***Height:** 11mm Max*
- ***Footprint:** 21.9mm x 16.5mm Max*
- ***Topology:** Flyback transformer*
- ***Creepage:** PRI To SEC 5.1mm MIN*
- ***Clearance:** PRI To SEC 5.1mm MIN*

Pulse PN	Electrical Specifications @25°C – Operating Temperature -40°C to 130°C [1]				Schematic
PGT6465NL	Pri. Inductance		205uH	+/-10%	
	Lk. Inductance	(1-5)W/(6,7,9,10) shorted	10	uH Max	
	DCR	(1-5)	650	mΩ Max	
		(6-7)	280		
		(9-10)	65		
	Hi-Pot	Pri-Sec	4000	Vrms	
	K1 Factor[5,6]	2679			
PGT6466NL	Pri. Inductance		1.8uH	+/-15%	
	Lk. Inductance	(2-5)W/(6,7,9,10) shorted	0.2uH	uH Max	
	DCR	(2-5)	20	mΩ Max	
		(6-7)	150		
		(9-10)	50		
	Hi-Pot	Pri-Sec	3000	Vdc	
	K1 Factor[5,6]	200			

Notes:

1. Storage Temperature: -40°C to 125°C
2. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
3. Pri/Lk. Inductance value is measured at 100Khz/0.1Vrms.
4. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. (PGT6465NL becomes PGT6465NLT). Pulse complies with industry standard tape and reel specification EIA481.
5. For flyback topology applications, it is necessary to ensure that the transformer will not saturate in the application. The peak flux density (Bpk) should remain below 2700Gauss. To calculate the peak flux density use the following formula:

   Bpk (Gauss) = K1_Factor * Ipk(A)
6. In high volt-µsec applications, it is important to calculate the core loss of the transformer. Approximate transformer core loss can be calculated as:

   CoreLoss (W) = $4.6E\text{-}14 * (Freq_kHz)^{1.63} * (\Delta B_Gauss)^{2.63}$

   where ΔB can be calculated as:

   For Flyback Topology: $\Delta B = K1_Factor * \Delta(A)$

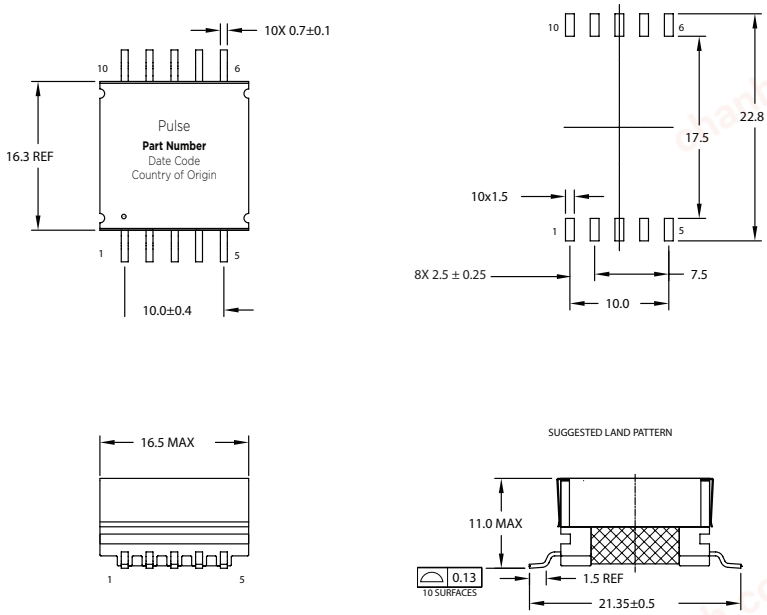
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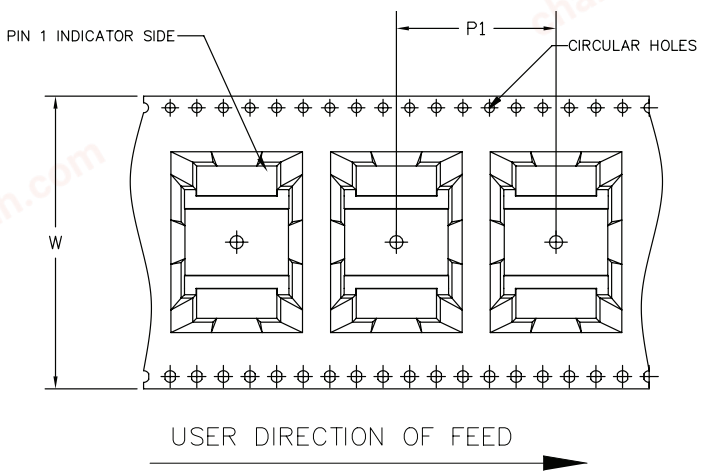
EFD15 flyback transformer – pin 5+5

Mechanical

PGT6465/56NL



TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST				
PGT6465/66NL	W	P_1	K_0	PCS/REEL
	44	24	11.3	150

For More Information:

Americas - prodinfo_power@pulseelectronics.com | **Europe -** power-apps-europe@pulseelectronics.com | **Asia -** power-apps-asia@pulseelectronics.com

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