

Indicates required field

# DC-DC Transformer Design Worksheet

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Street: \_\_\_\_\_

**Topology** General application for this product:

Flyback	Continuous	Discontinuous		
Forward converter		Two-switch forward	Active clamp forward	Push pull
Full bridge	Half bridge	Other		

<b>Electrical/ Mechanical</b>	<b>Primary</b>							<b>Schematic</b>	
	Switching frequency (kHz):							If you have a schematic or other design criteria, please attach it to the email when submitting this form.	
	Input voltage (Vdc):	Min	Nom	Max					
	Peak Input current (A):								
	Inductance (µH):	Min	Nom	Max					
	Duty cycle max (%):								
	Leakage inductance (µH):	Min	Max						
	Turns ratio (pri : sec1 : sec2 : sec3):								
	<b>Secondary(ies)</b>		S1	S2	S3	S4	S5		S6
	Voltage (V):								
Current (A):	Peak	RMS							
DC Resistance (Ohms):									
Diode drop (V):									
<b>Specifications, Environmental and Physical Characteristics</b>									
Pri-to-Sec Isolation (V):		DC	RMS	Time (seconds):					
Sec-to-Sec Isolation (V):		DC	RMS	Time (seconds):					
Temperature rise, maximum (°C):									
Ambient temperature range (°C):			to						
Maximum size (mm):	Length		Width		Height				
Mounting type:	Surface mount		Through hole						

<b>Safety Requirement</b>	Insulation class:	Functional	Basic	Reinforced				
	Working Voltage:				Pollution Degree:	I	II	III
	Overvoltage Category:	I	II	III	IV	Altitude:		
	Agency requirement:	IEC	UL	CSA	Other			
Creepage/Clearance (mm): _____								

**Other** Automotive/Vehicle Application (Yes or No): \_\_\_\_\_ If Yes, ISO 26262 ASIL Level: A B C D

PCB with part to be washed: \_\_\_\_\_ PCB with part to be conformally coated: \_\_\_\_\_

Special testing conditions (altitude, accelerated life, etc.): \_\_\_\_\_

Additional information: \_\_\_\_\_