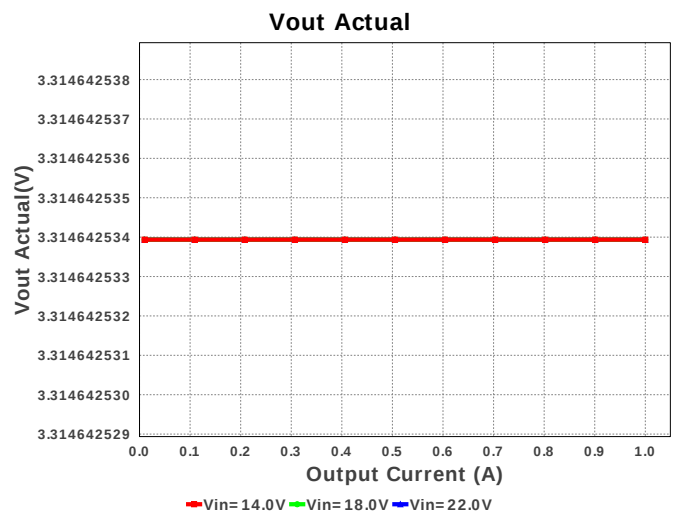
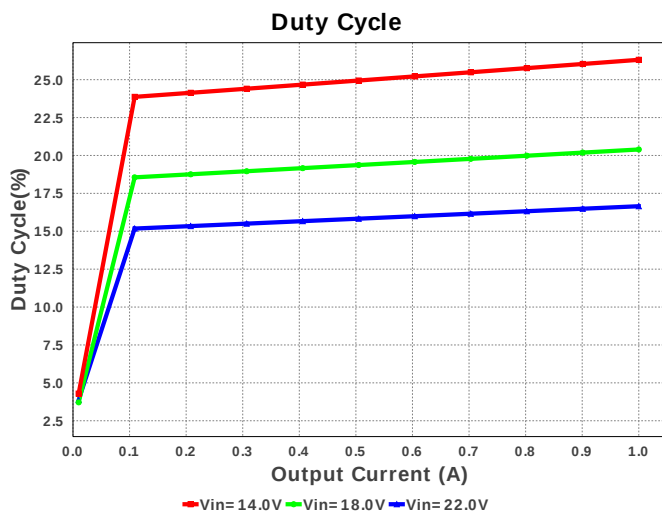
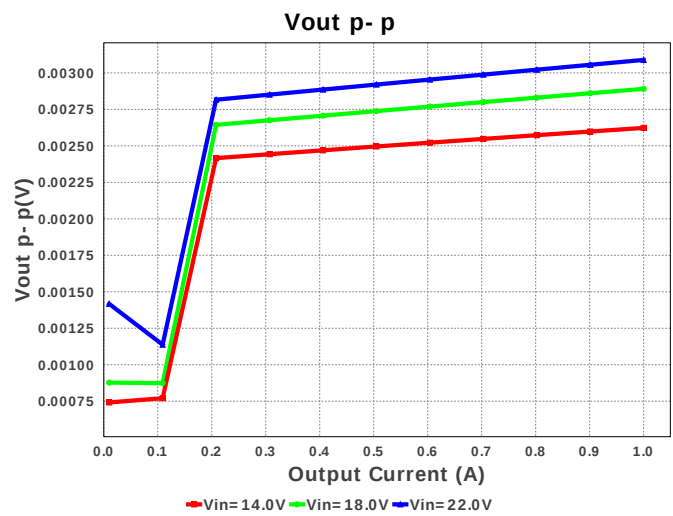
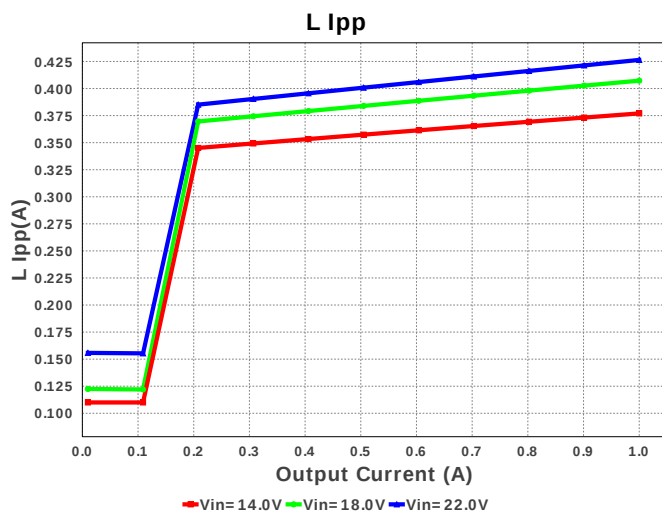
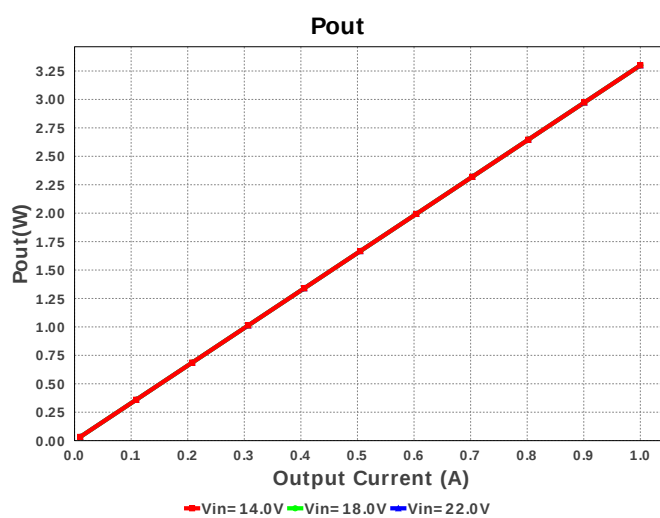
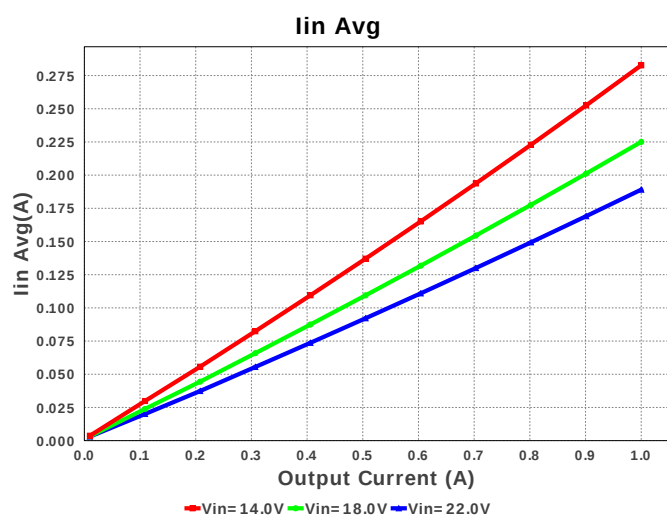
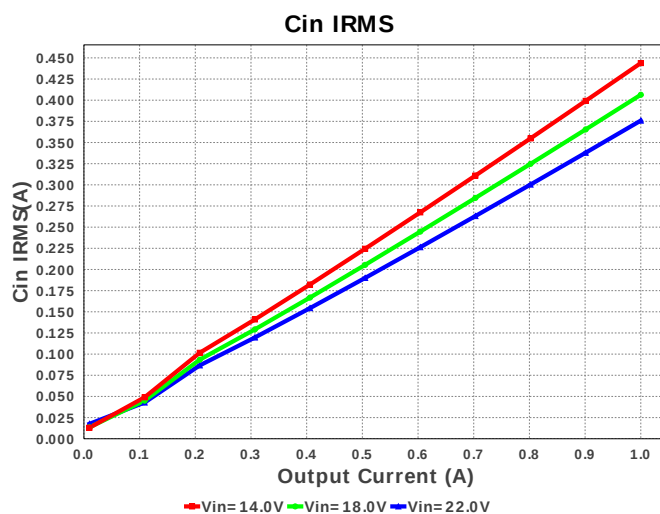
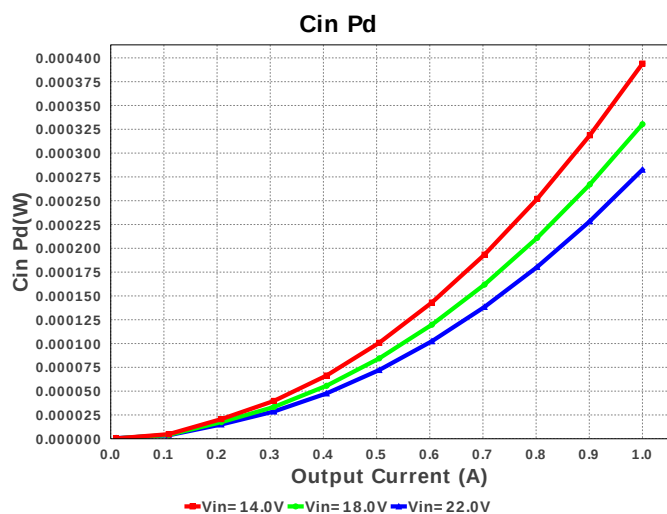
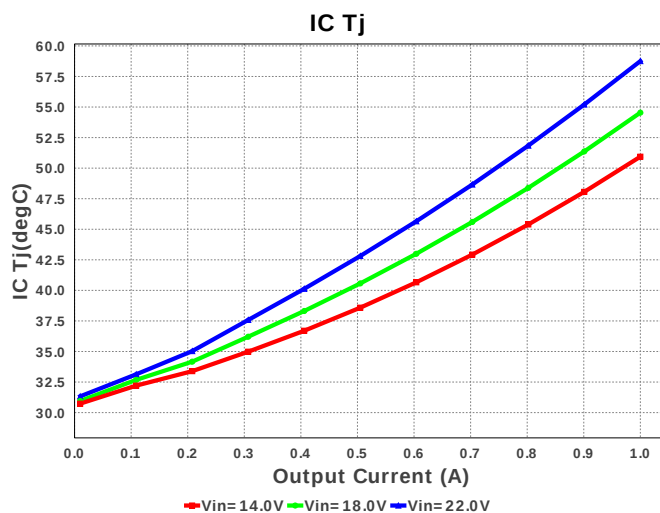
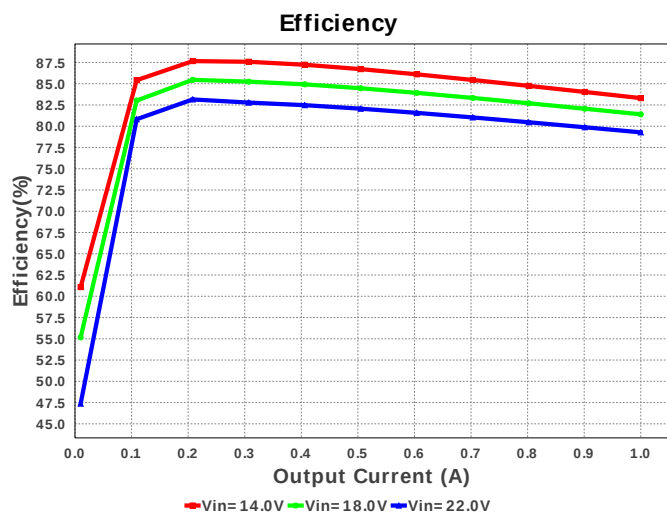
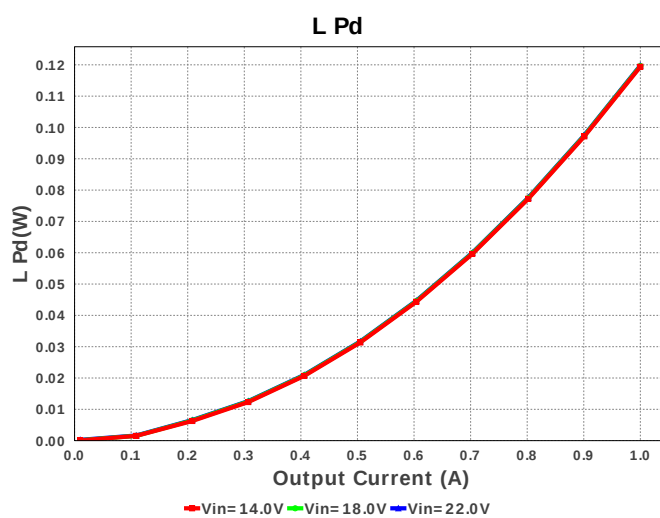
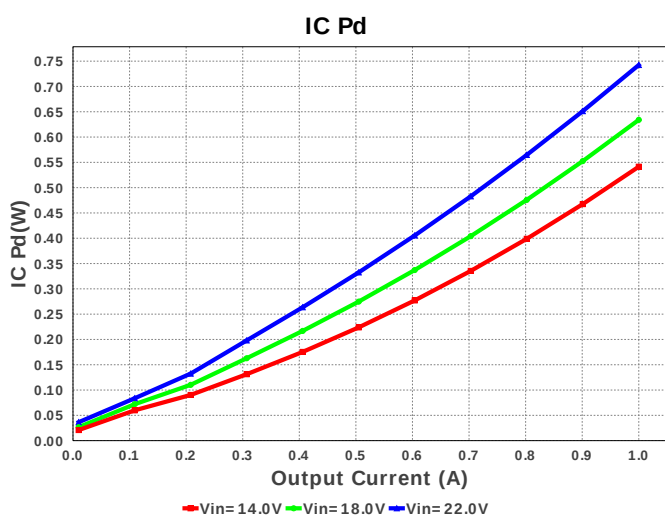
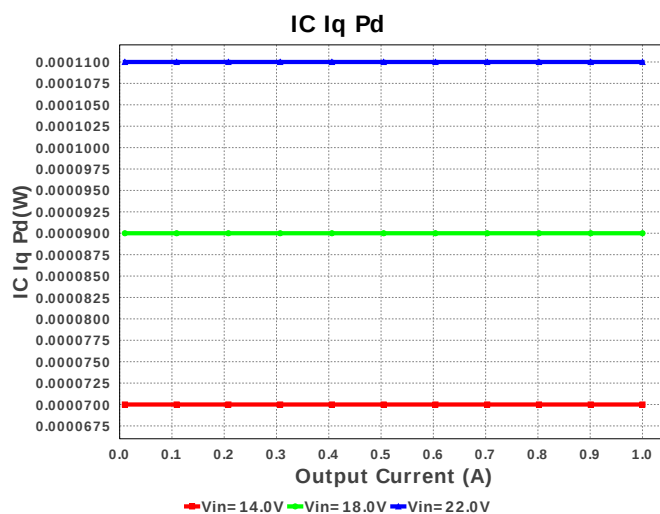
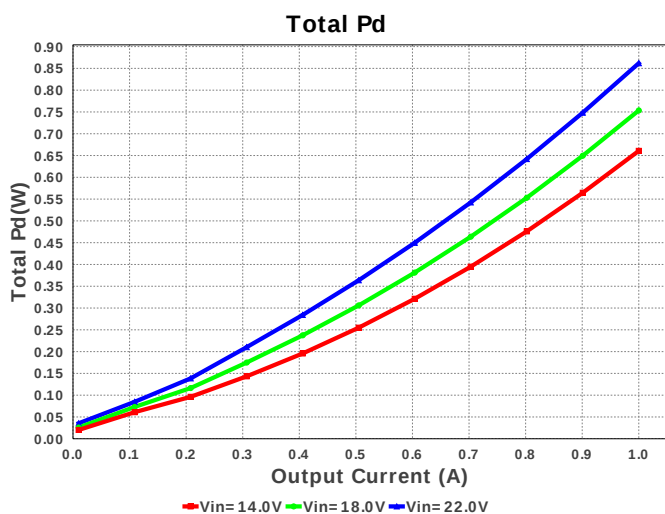
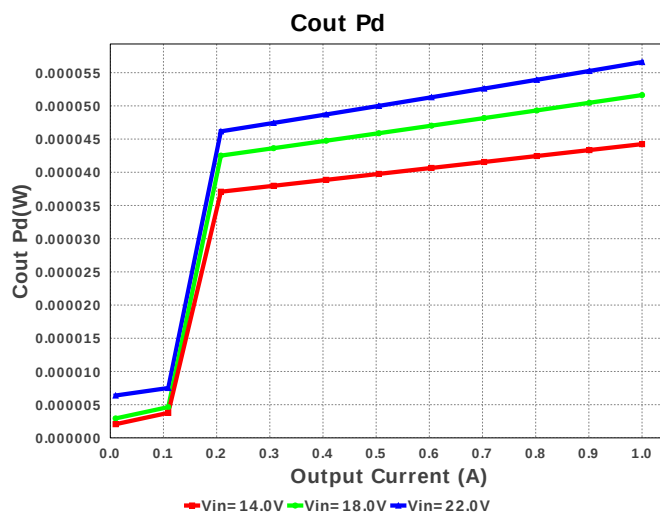
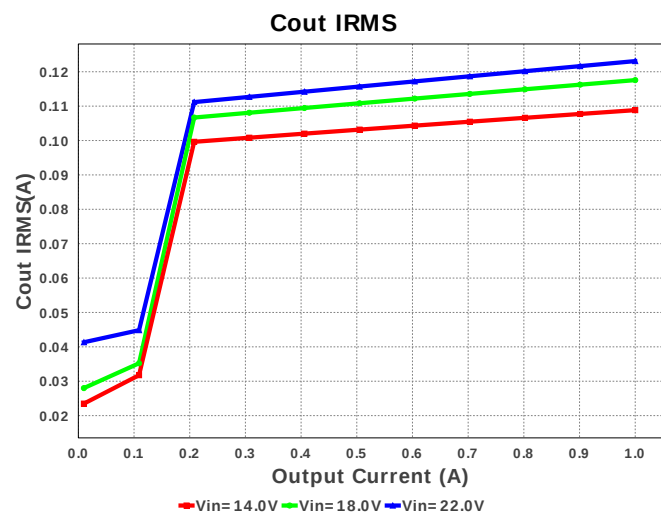


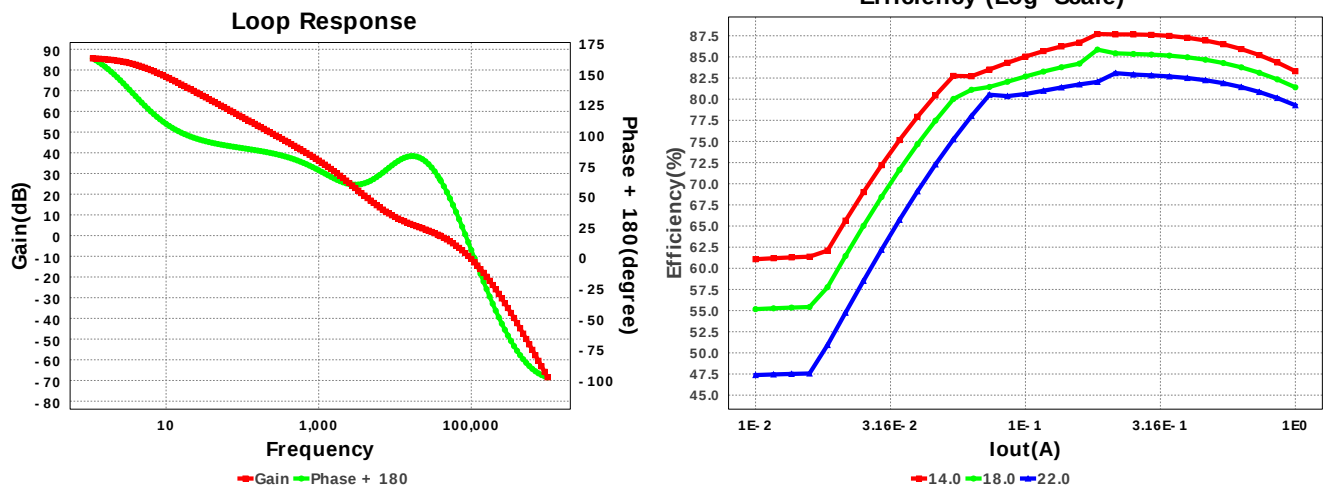


#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
10.	Rfbt	Vishay-Dale	CRCW04021M00FKED Series= CRCW..e3	Res= 1000.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²
11.	U1	Texas Instruments	LM43601PWPR	Switcher	1	\$1.60	 PWP0016F 59 mm ²









Operating Values

#	Name	Value	Category	Description
1.	Cin IRMS	375.913 mA	Current	Input capacitor RMS ripple current
2.	Cout IRMS	123.097 mA	Current	Output capacitor RMS ripple current
3.	Iin Avg	189.06 mA	Current	Average input current
4.	L Ipp	426.42 mA	Current	Peak-to-peak inductor ripple current
5.	BOM Count	11	General	Total Design BOM count
6.	FootPrint	148.0 mm ²	General	Total Foot Print Area of BOM components
7.	Frequency	500.0 kHz	General	Switching frequency
8.	Mode	CCM	General	Conduction Mode
9.	Pout	3.3 W	General	Total output power
10.	Total BOM	\$3.68	General	Total BOM Cost
11.	Low Freq Gain	85.582 dB	Op_Point	Gain at 10Hz
12.	Vout Actual	3.315 V	Op_Point	Vout Actual calculated based on selected voltage divider resistors
13.	Vout OP	3.3 V	Op_Point	Operational Output Voltage
14.	Cross Freq	38.54 kHz	Op_point	Bode plot crossover frequency
15.	Duty Cycle	16.651 %	Op_point	Duty cycle
16.	Efficiency	79.278 %	Op_point	Steady state efficiency
17.	Gain Marg	-12.906 dB	Op_point	Bode Plot Gain Margin
18.	IC Tj	58.758 degC	Op_point	IC junction temperature
19.	ICThetaJA	38.9 degC/W	Op_point	IC junction-to-ambient thermal resistance
20.	IOUT_OP	1.0 A	Op_point	Iout operating point
21.	Phase Marg	64.818 deg	Op_point	Bode Plot Phase Margin
22.	VIN_OP	22.0 V	Op_point	Vin operating point
23.	Vout p-p	3.089 mV	Op_point	Peak-to-peak output ripple voltage
24.	Cin Pd	282.62 μW	Power	Input capacitor power dissipation
25.	Cout Pd	56.596 μW	Power	Output capacitor power dissipation
26.	IC Iq Pd	110.0 μW	Power	IC Iq Pd
27.	IC Pd	742.412 mW	Power	IC power dissipation
28.	L Pd	119.788 mW	Power	Inductor power dissipation
29.	Total Pd	861.894 mW	Power	Total Power Dissipation
30.	Vout Tolerance	2.399 %		Vout Tolerance based on IC Tolerance (no load) and voltage divider resistors if applicable

Design Inputs

#	Name	Value	Description
1.	Iout	1.0	Maximum Output Current
2.	VinMax	22.0	Maximum input voltage
3.	VinMin	14.0	Minimum input voltage
4.	Vout	3.3	Output Voltage
5.	base_pn	LM43601	Base Product Number
6.	source	DC	Input Source Type
7.	Ta	30.0	Ambient temperature

Design Assistance

1. **LM43601** Product Folder : <http://www.ti.com/product/LM43601> : contains the data sheet and other resources.

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