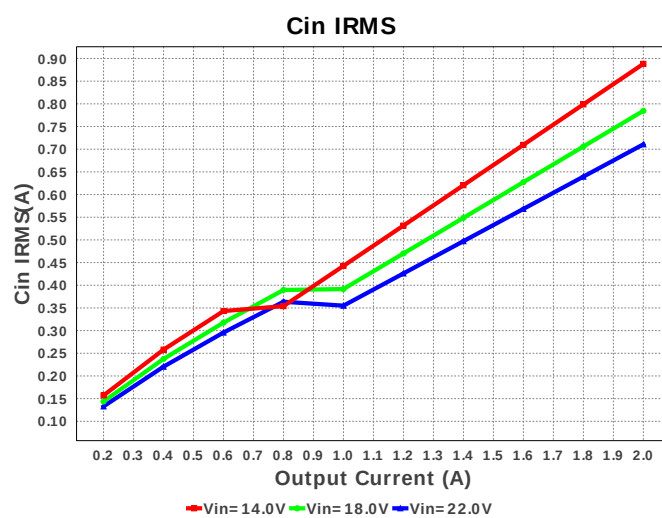
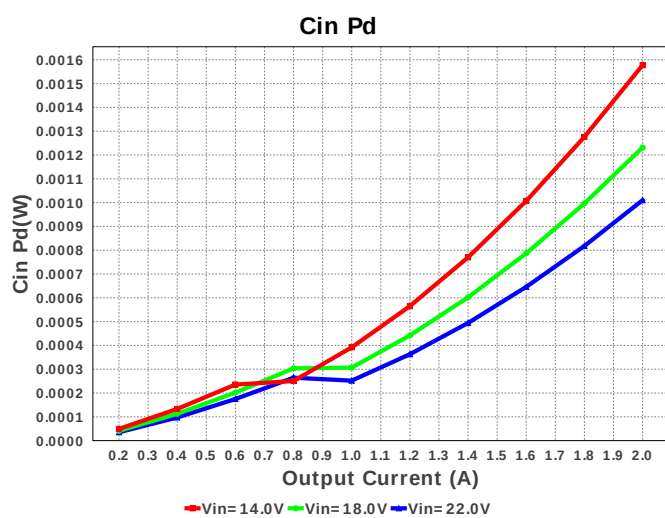
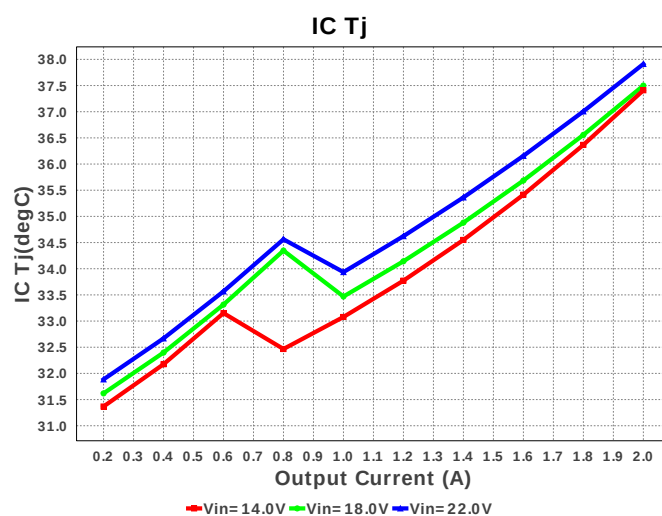
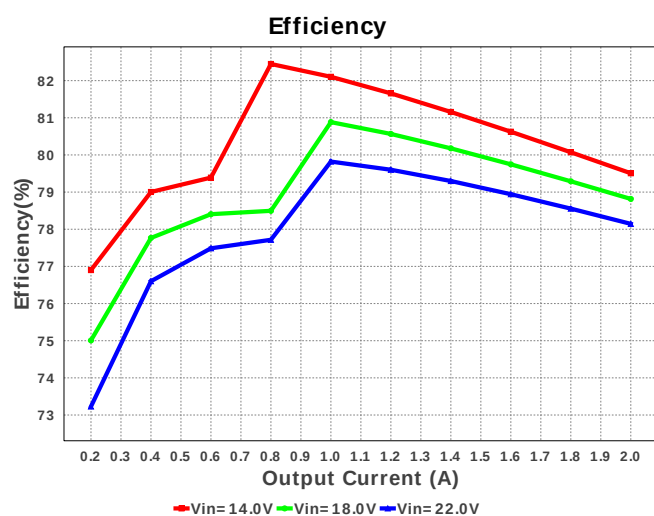
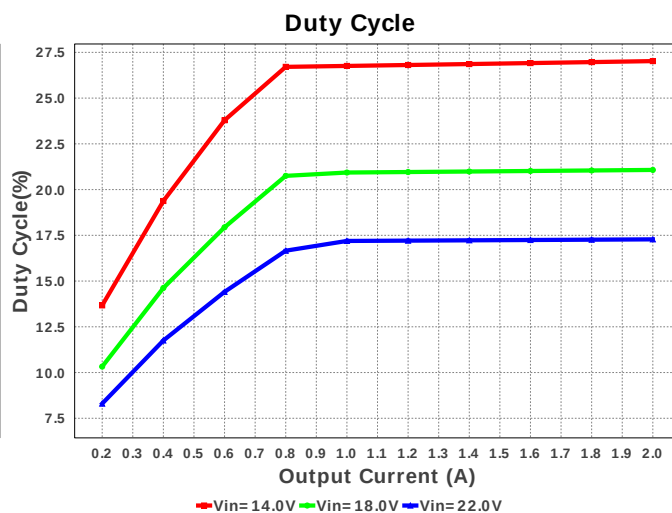
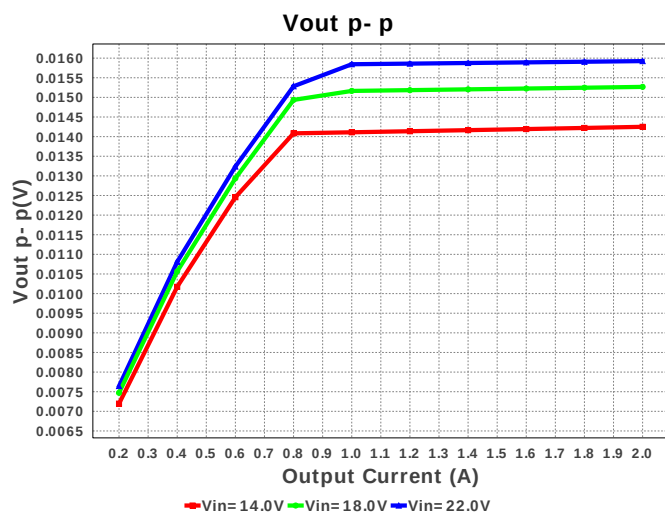
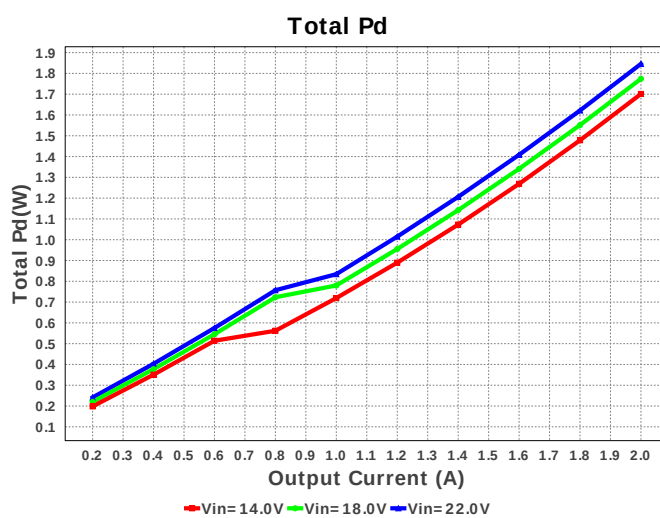
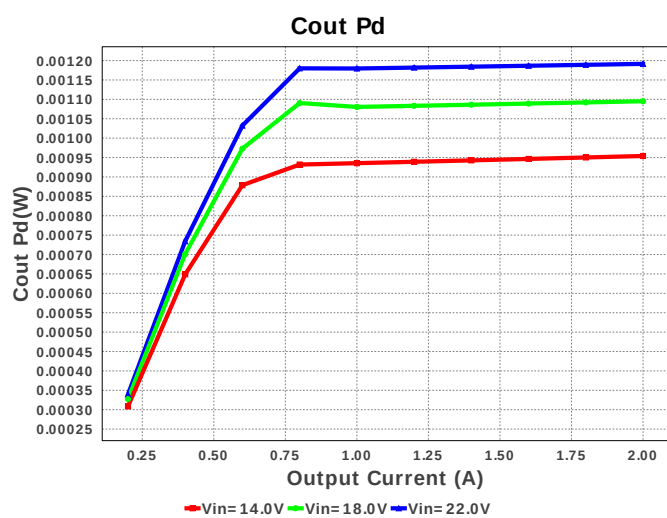
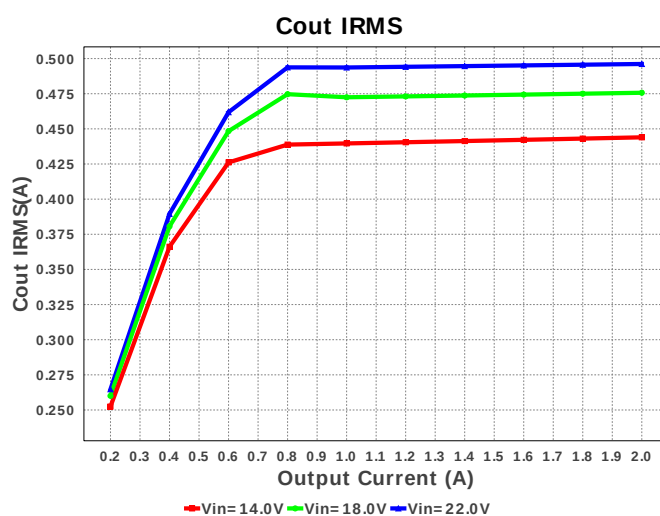
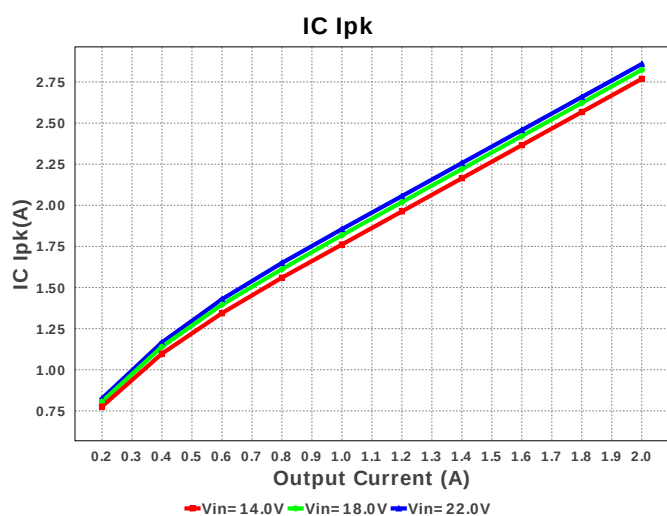
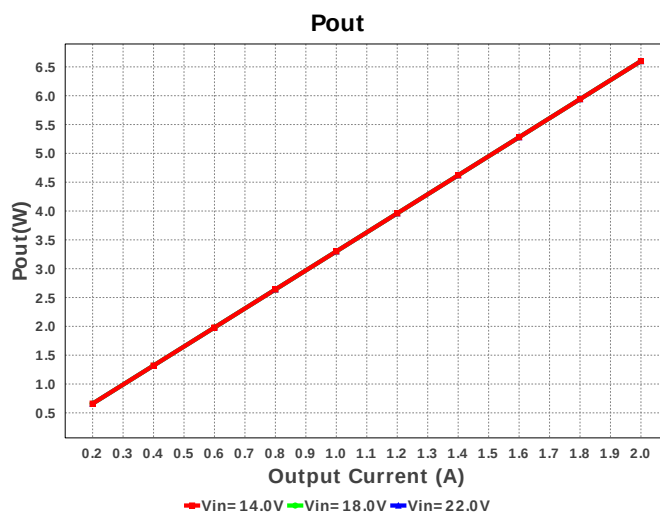
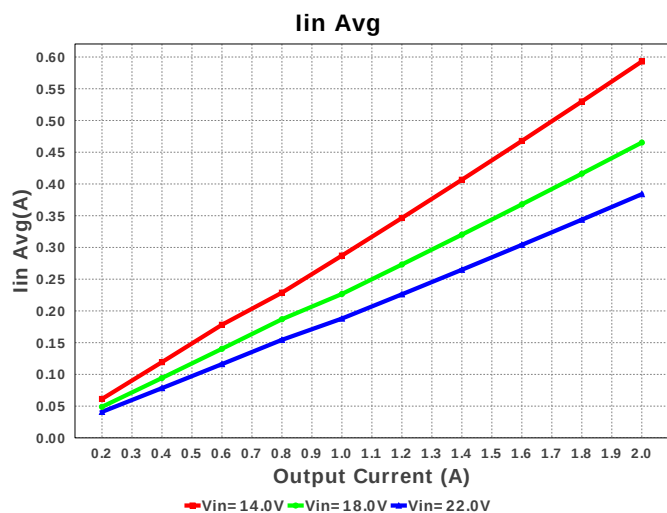
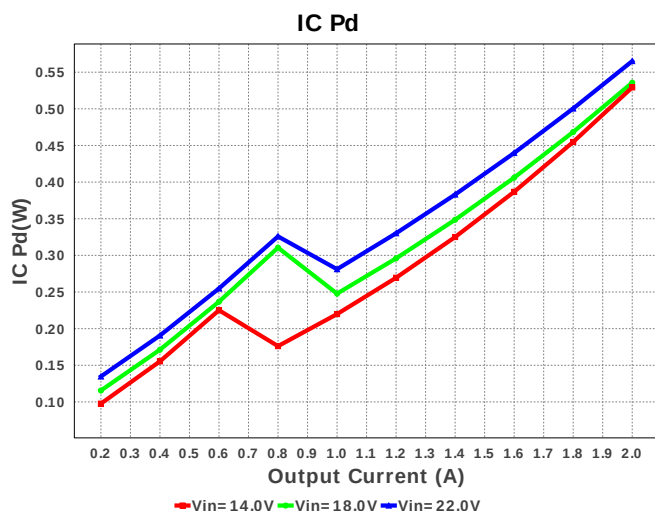




Device = LMZ35003RKGR
Topology = Buck
Created = 7/12/16 2:47:30 AM
BOM Cost = \$8.32
BOM Count = 7
Total Pd = 1.85W







Operating Values

#	Name	Value	Category	Description
1.	Cin IRMS	710.71 mA	Current	Input capacitor RMS ripple current
2.	Cout IRMS	496.154 mA	Current	Output capacitor RMS ripple current
3.	IC IpK	2.0 A	Current	Peak switch current in IC
4.	Iin Avg	383.9 mA	Current	Average input current
5.	BOM Count	7	General	Total Design BOM count
6.	FootPrint	180.0 mm ²	General	Total Foot Print Area of BOM components
7.	Frequency	400.0 kHz	General	Switching frequency
8.	Pout	6.6 W	General	Total output power
9.	Total BOM	\$8.32	General	Total BOM Cost
10.	Vout OP	3.3 V	Op_point	Operational Output Voltage
11.	Cross Freq	46.028 kHz	Op_point	Bode plot crossover frequency
12.	Duty Cycle	17.279 %	Op_point	Duty cycle
13.	Efficiency	78.145 %	Op_point	Steady state efficiency
14.	IC Tj	37.912 degC	Op_point	IC junction temperature
15.	ICThetaJA	14.0 degC/W	Op_point	IC junction-to-ambient thermal resistance
16.	IOUT_OP	2.0 A	Op_point	Iout operating point
17.	Phase Marg	50.719 deg	Op_point	Bode Plot Phase Margin
18.	VIN_OP	22.0 V	Op_point	Vin operating point
19.	Vout p-p	11.272 mV	Op_point	Peak-to-peak output ripple voltage
20.	Cin Pd	1.01 mW	Power	Input capacitor power dissipation
21.	Cout Pd	1.191 mW	Power	Output capacitor power dissipation
22.	IC Pd	2.126 W	Power	IC power dissipation
23.	Total Pd	1.846 W	Power	Total Power Dissipation
24.	Vout Tolerance	2.273 %		Vout Tolerance based on IC Tolerance (no load) and voltage divider resistors if applicable

Design Inputs

#	Name	Value	Description
1.	Iout	2.0	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	LMZ35003	Base Product Number
6.	source	DC	Input Source Type
7.	Ta	30.0	Ambient temperature

Design Assistance

1. **LMZ35003** Product Folder : <http://www.ti.com/product/LMZ35003> : contains the data sheet and other resources.

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You should completely validate and test your design implementation to confirm the system functionality for your application prior to production.

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