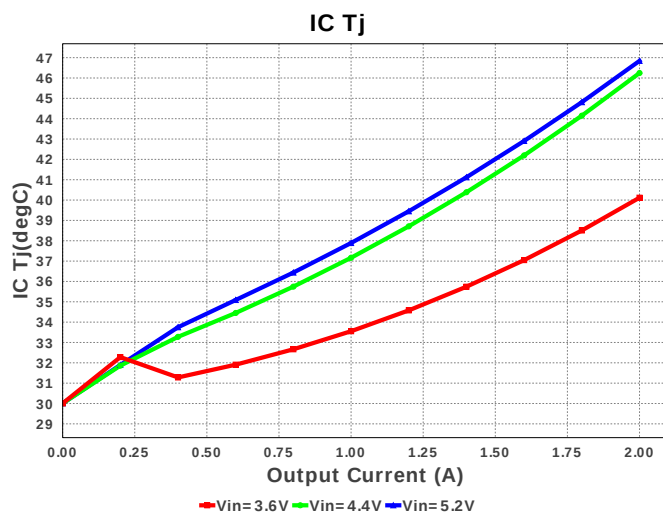
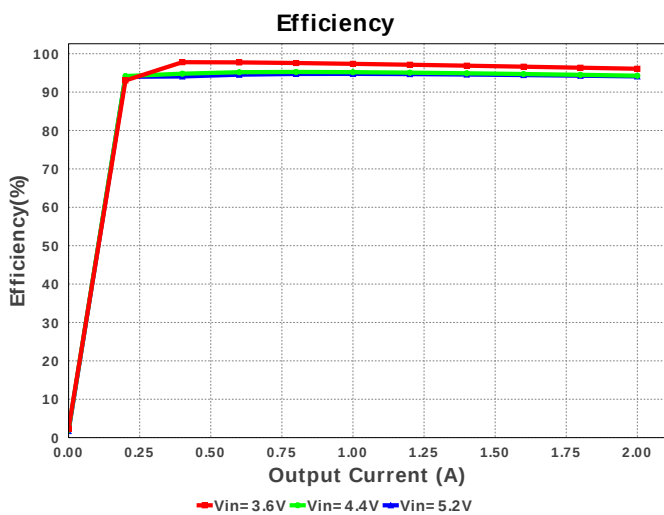
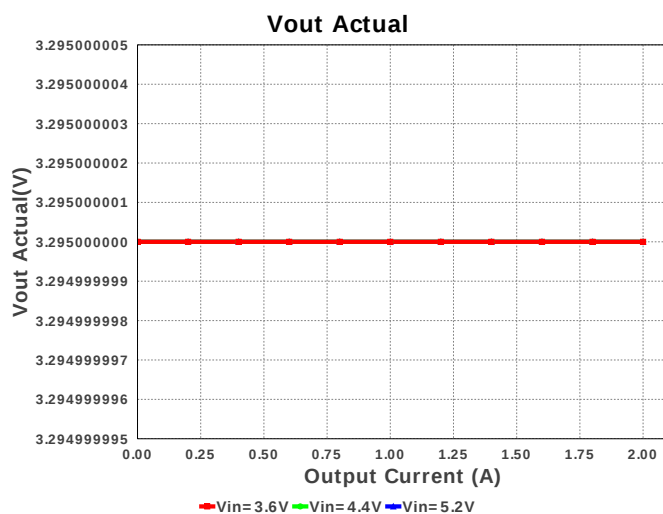
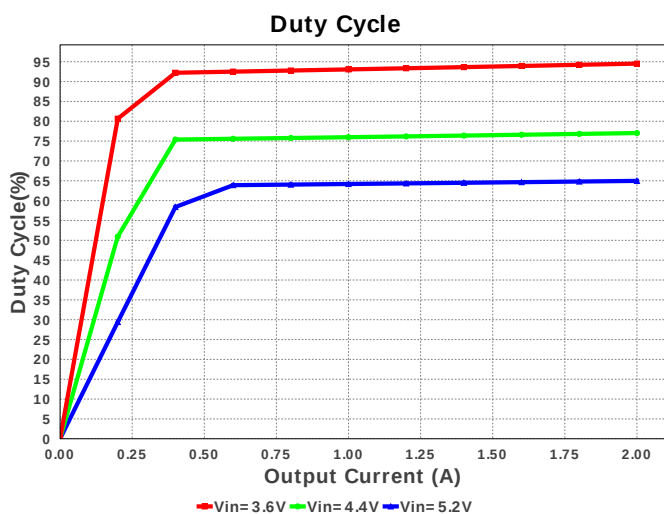
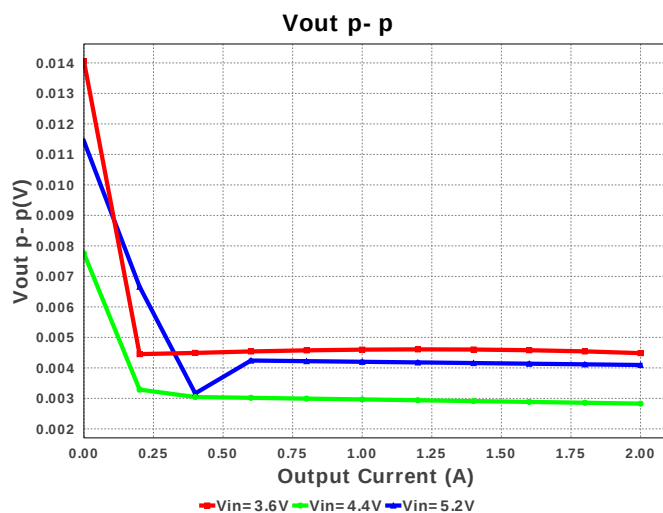
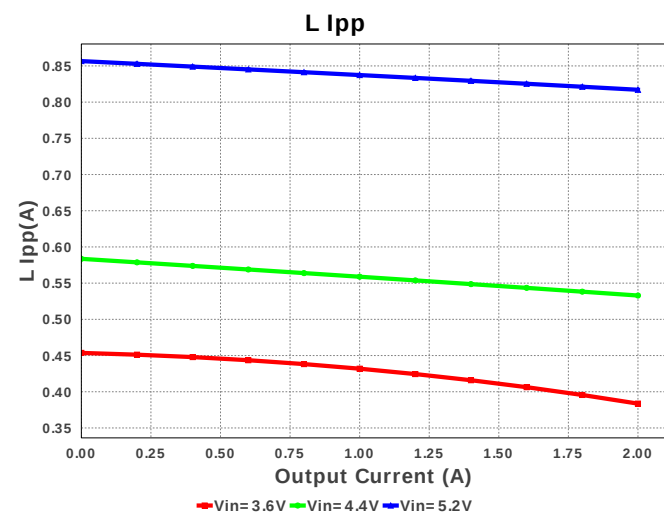
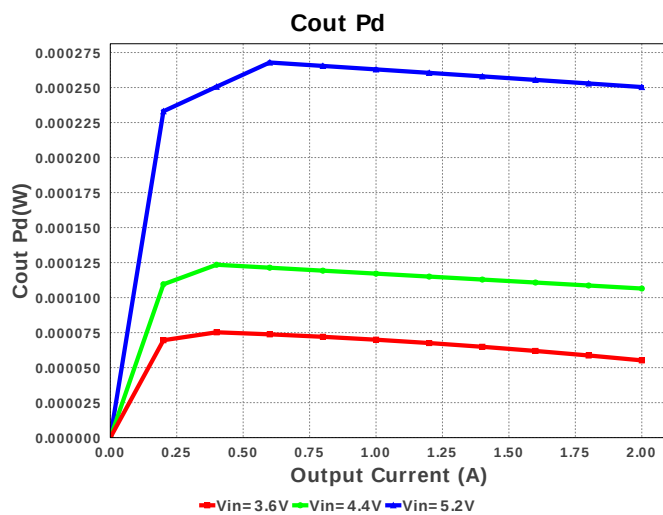
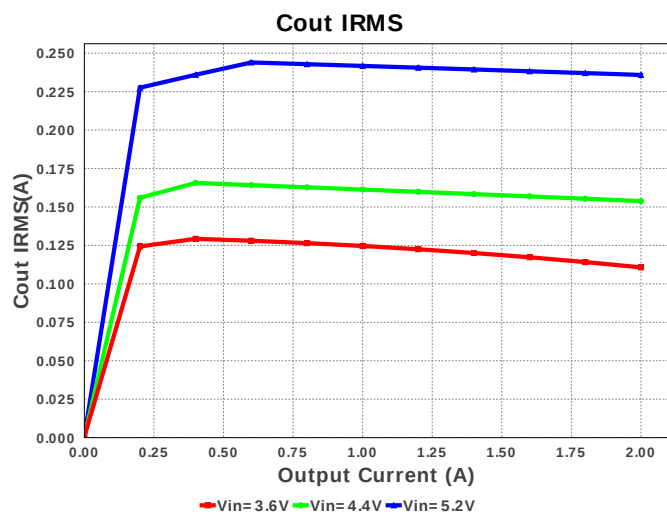
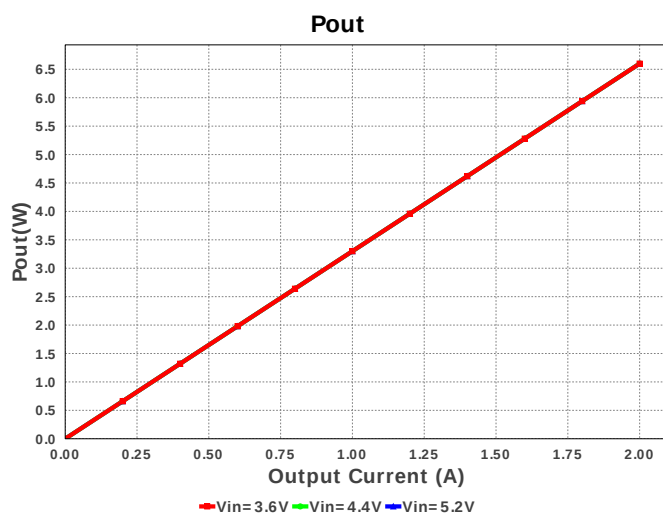
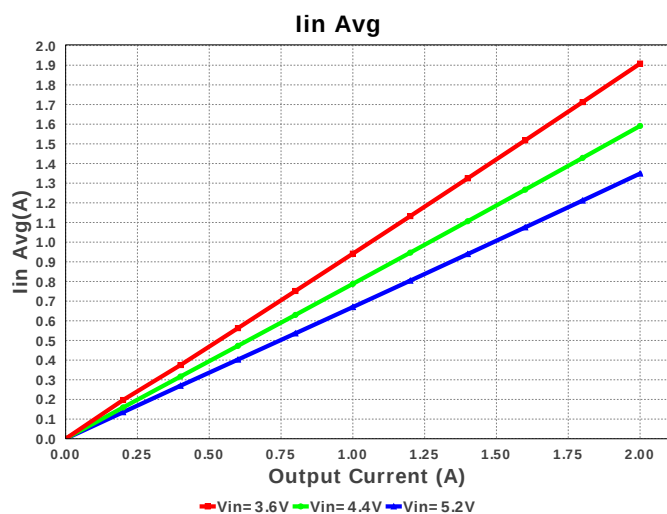
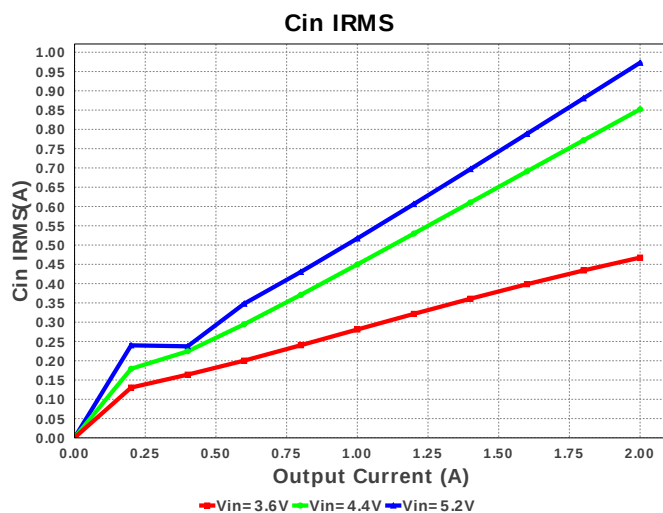
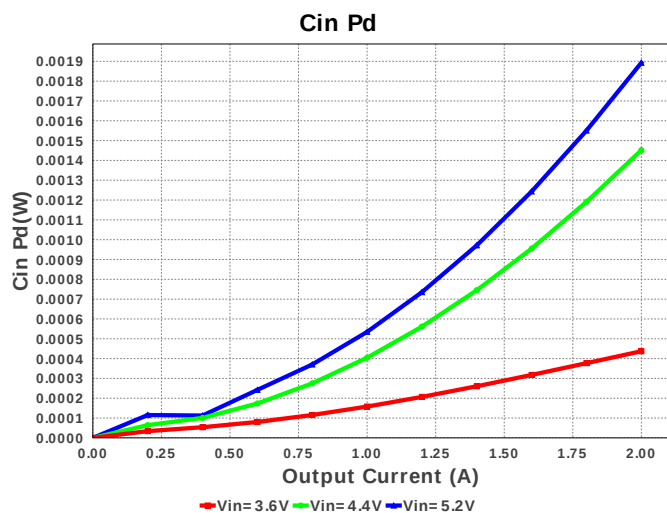
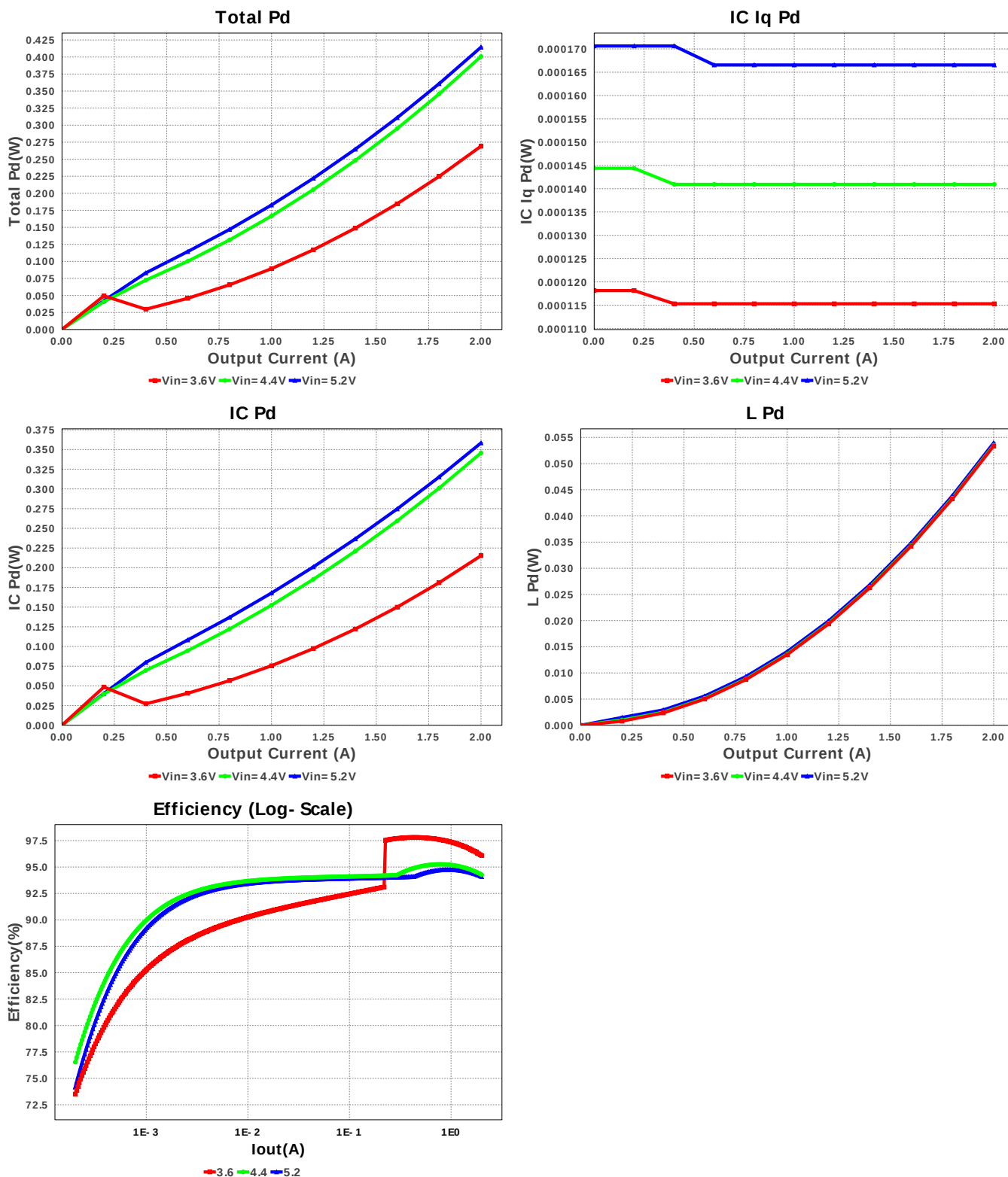




Device = TLV62095RGTR
Topology = Buck
Created = 7/29/16 1:39:36 AM
BOM Cost = \$1.60
BOM Count = 10
Total Pd = 0.41W







Operating Values

#	Name	Value	Category	Description
1.	Cin IRMS	972.846 mA	Current	Input capacitor RMS ripple current
2.	Cout IRMS	235.862 mA	Current	Output capacitor RMS ripple current
3.	Iin Avg	1.349 A	Current	Average input current
4.	L Ipp	817.05 mA	Current	Peak-to-peak inductor ripple current
5.	BOM Count	10	General	Total Design BOM count
6.	FootPrint	92.0 mm ²	General	Total Foot Print Area of BOM components
7.	Frequency	1.401 MHz	General	Switching frequency
8.	IC Tolerance	20.0 mV	General	IC Feedback Tolerance
9.	Pout	6.6 W	General	Total output power
10.	Total BOM	\$1.6	General	Total BOM Cost
11.	Vout Actual	3.295 V	Op_Point	Vout Actual calculated based on selected voltage divider resistors

#	Name	Value	Category	Description
12.	Vout OP	3.3 V	Op_Point	Operational Output Voltage
13.	Duty Cycle	64.976 %	Op_point	Duty cycle
14.	Efficiency	94.092 %	Op_point	Steady state efficiency
15.	IC Tj	46.842 degC	Op_point	IC junction temperature
16.	ICThetaJA	47.0 degC/W	Op_point	IC junction-to-ambient thermal resistance
17.	IOUT_OP	2.0 A	Op_point	Iout operating point
18.	VIN_OP	5.2 V	Op_point	Vin operating point
19.	Vout p-p	4.095 mV	Op_point	Peak-to-peak output ripple voltage
20.	Cin Pd	1.893 mW	Power	Input capacitor power dissipation
21.	Cout Pd	250.338 µW	Power	Output capacitor power dissipation
22.	IC Iq Pd	166.557 µW	Power	IC Iq Pd
23.	IC Pd	358.342 mW	Power	IC power dissipation
24.	L Pd	53.94 mW	Power	Inductor power dissipation
25.	Total Pd	414.404 mW	Power	Total Power Dissipation
26.	Vout Tolerance	4.068 %		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	5.2	Maximum input voltage
3.	VinMin	3.6	Minimum input voltage
4.	Vout	3.3	Output Voltage
5.	base_pn	TLV62095	Texas Instruments Base Part Number
6.	source	DC	Input Source Type
7.	ta	30.0	Ambient temperature

Design Assistance

1. TLV62095 Product Folder : <http://www.ti.com/product/TLV62095> : 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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