

WEBENCH® Power Architect

Project Report

Project : 4446210/6 : PA_Project_302 (modified from 301)

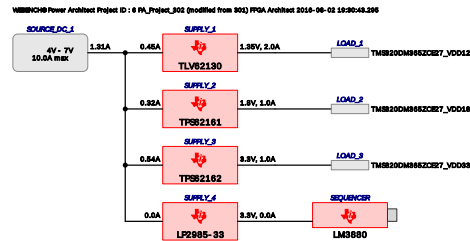
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Optimize project optFactor=3

Project Summary

1. Total System Efficiency	84.971 %
2. Total System BOM Count	27.0
3. Total System Footprint	379.0 mm ²
4. Total System BOM Cost	\$3.91
5. Total System Power Dissipation	1.38 W

--> Launch WEBENCH Power Architect.



Sequencer Flag Table

Supply	Sequencer Flag	Load	Load Name
SUPPLY_1	1	LOAD_1	TMS320DM365ZCE27_VDD12
SUPPLY_2	1	LOAD_2	TMS320DM365ZCE27_VDD18
SUPPLY_3	1	LOAD_3	TMS320DM365ZCE27_VDD33
SUPPLY_4	NA		
SEQUENCER	NA		

Power Supplies

#	Name	NSID	Description	Vout	Iout	Efficiency	Foot-print	Cost	Design	Page
1.	SUPPLY_1	TLV62130	Switcher : 3V-17V, adj.softstart (optional), compare with TPS62130	1.35 V	2.0 A	85.1%	144	\$1.08	37	4
2.	SUPPLY_2	TPS62161	Switcher : 3V-17V, 1.8Vout, 1A, Buck Converter with Power Good	1.8 V	1.0 A	77.9%	94	\$1.07	38	9
3.	SUPPLY_3	TPS62162	Switcher : 17V, 3.3Vout, 1A, Buck Converter with Power Good	3.3 V	1.0 A	84.9%	94	\$1.07	39	14
4.	SUPPLY_4	LP2985-33	LDO : 150mA Low-noise Low-dropout regulator with shutdown	3.3 V	0.001 A	43.1%	28	\$0.21	41	21
5.	SEQUENCER	LM3880	Sequencer : Power Sequencer	3.3 V	0.001 A	0%	19	\$0.48	40	19

Power Loads

#	Name	VLoad	ILoad	Description
1.	TMS320DM365ZCE27_VDD12	1.35 V	2 A	VoutRipple=10%, Up Sequence Order=0 delay=2.0 mSec, Down Sequence Order=0 delay=2.0 mSec
2.	TMS320DM365ZCE27_VDD18	1.8 V	1 A	VoutRipple=10%, Up Sequence Order=0 delay=2.0 mSec, Down Sequence Order=0 delay=2.0 mSec
3.	TMS320DM365ZCE27_VDD33	3.3 V	1 A	VoutRipple=10%, Up Sequence Order=0 delay=2.0 mSec, Down Sequence Order=0 delay=2.0 mSec

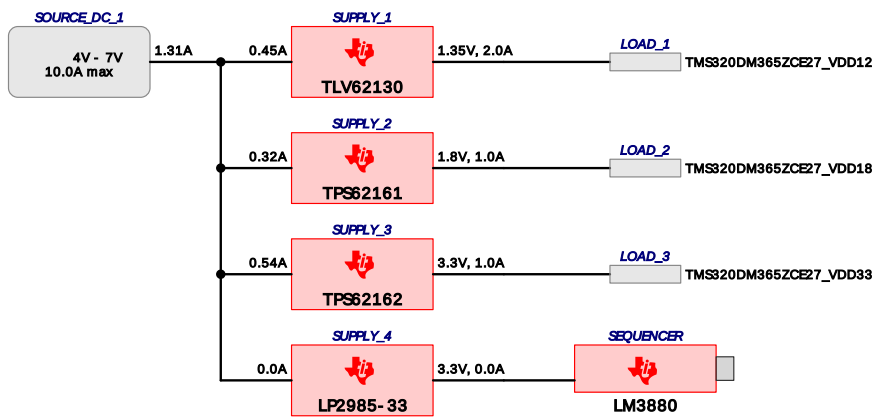
FPGAs, Processors

#	Manufacturer	Part Number	Name	Series	Description
1.	Texas Instruments	TMS320DM365ZCE27	FPGA_1	DAVINCI	FPGA Texas Instruments DAVINCI TMS320DM365ZCE27

<http://www.ti.com/product/tms320dm365>

Project Diagram

WEBENCH® Power Architect Project ID : 6 PA_Project_302 (modified from 301) FPGA Architect 2016-08-02 19:30:43.295



Electrical Procurement BOM

Manufacturer	Part Number	Description	Quantity	Budgetary Price	Footprint (mm ²)
Vishay-Dale	CRCW0402100KFKED	0402	6	\$0.01	18
Vishay-Dale	CRCW0402102KFKED	0402	1	\$0.01	3
Vishay-Dale	CRCW0402150KFKED	0402	1	\$0.01	3
MuRata	GRM033R61A103KA01D	0201	1	\$0.01	2
MuRata	GRM033R71C181KA01D	0201	1	\$0.01	2
MuRata	GRM155R61C104KA88D	0402	1	\$0.01	3
MuRata	GRM188R60J475KE19D	0603	1	\$0.01	5
MuRata	GRM188R61A105KA61D	0603	1	\$0.01	5
MuRata	GRM21BR60J226ME39L	0805	1	\$0.04	7
MuRata	GRM31CR70J226KE19L	1206_190	2	\$0.12	22
Texas Instruments	LM3880MF-1AE/NOPB	R-PDSO- G6	1	\$0.45	10
Taiyo Yuden	LMK212BJ106KG-T	0805	3	\$0.03	20
Texas Instruments	LP2985-33DBVRE4	R-PDSO- G5	1	\$0.18	16
Bourns	SRN6045-2R2Y	SRN6045	2	\$0.16	128
Bourns	SRN8040-2R2Y	SRN8040	1	\$0.22	100
Texas Instruments	TLV62130RGTR	S-PVQFN- N16	1	\$0.74	17
Texas Instruments	TPS62161DSGR	S- PWSON- N8	1	\$0.75	10
Texas Instruments	TPS62162DSGR	S- PWSON- N8	1	\$0.75	10
Total			27	\$3.79	140250000000003

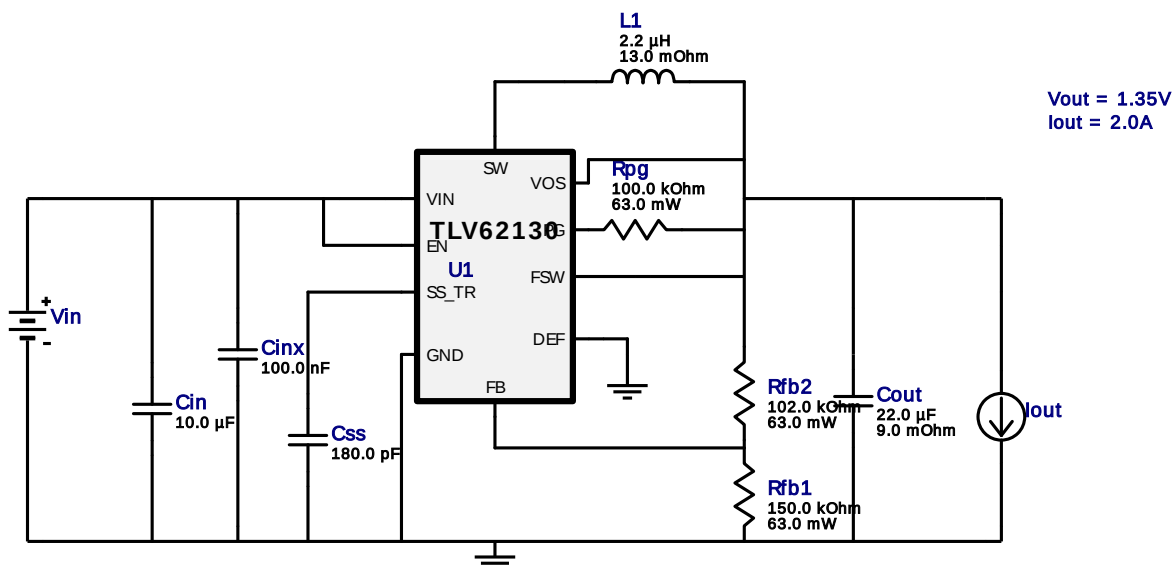


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Iout = 2.0A

Device = TLV62130RGTR
Topology = Buck
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BOM Cost = \$1.08
BOM Count = 9
Total Pd = 0.47W

WEBENCH® Design Report

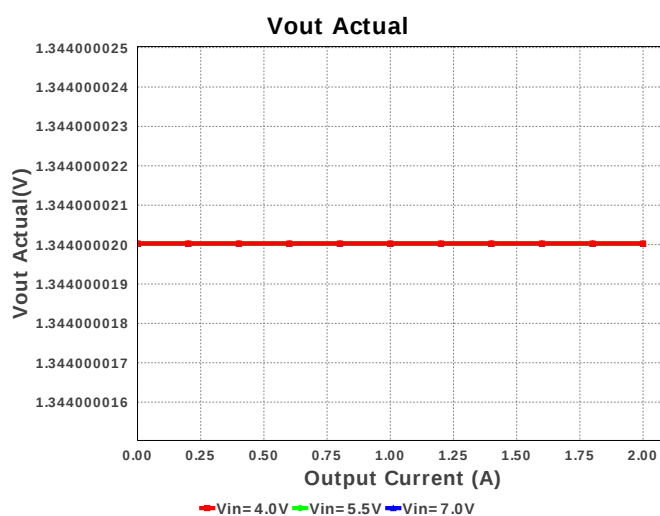
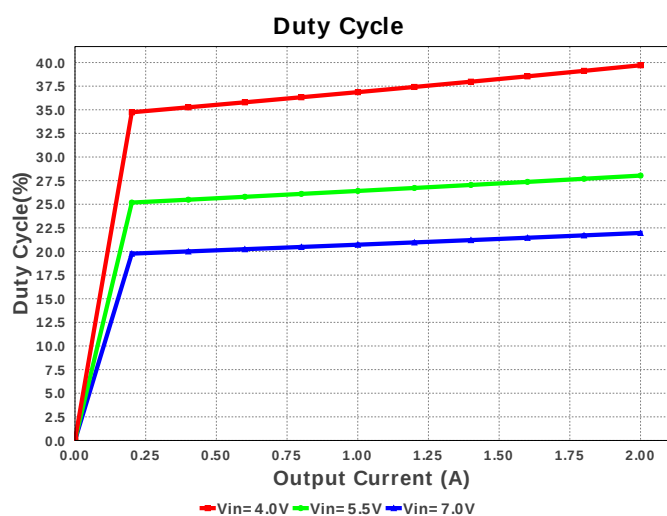
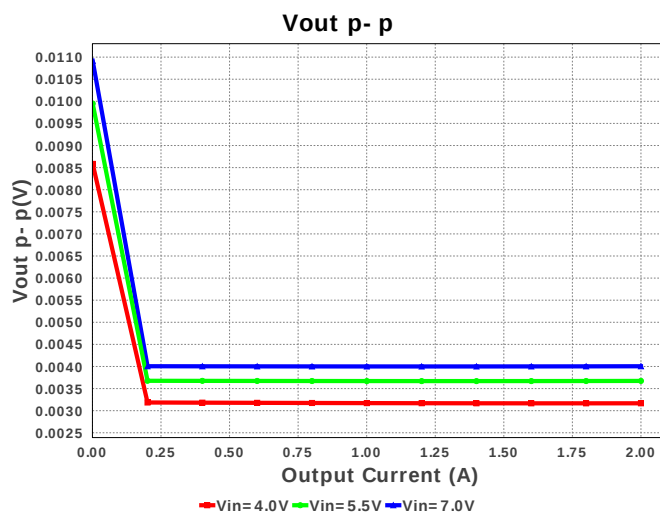
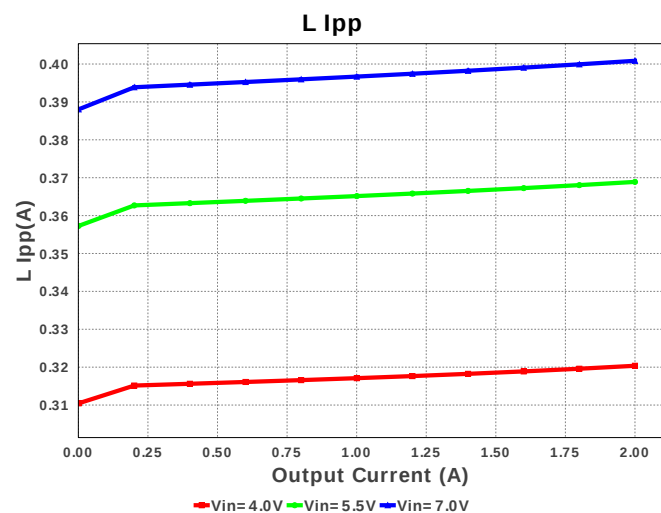
Design : 4446210/37 TLV62130RGTR
TLV62130RGTR 4.0V-7.0V to 1.35V @ 2.0A

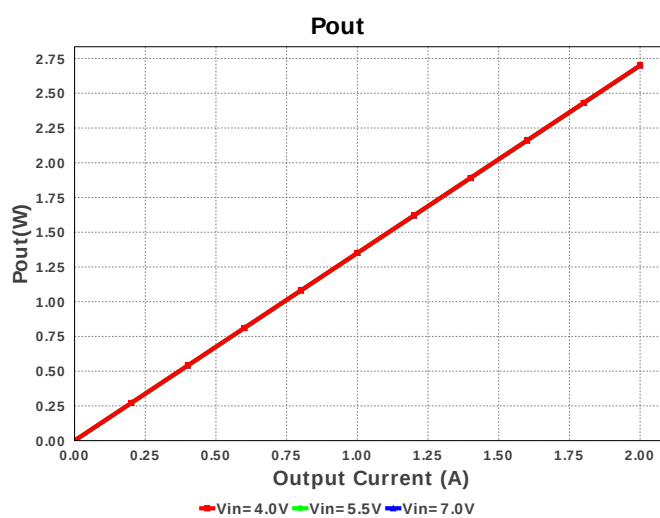
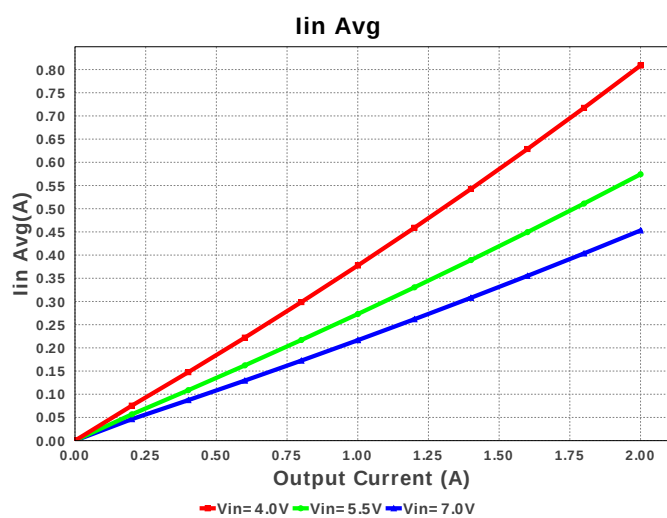
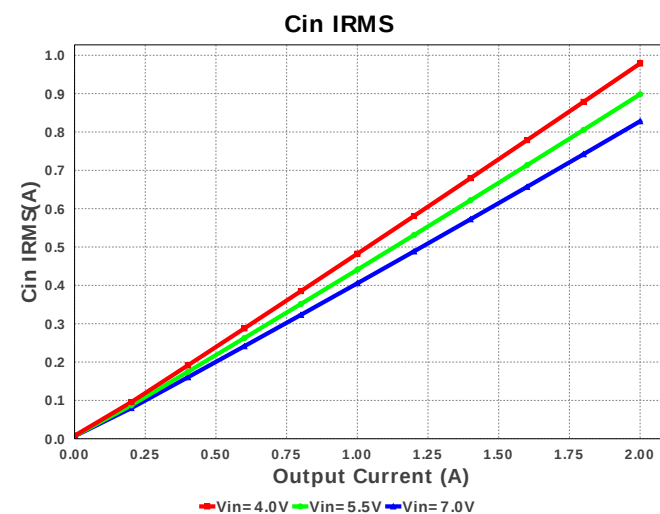
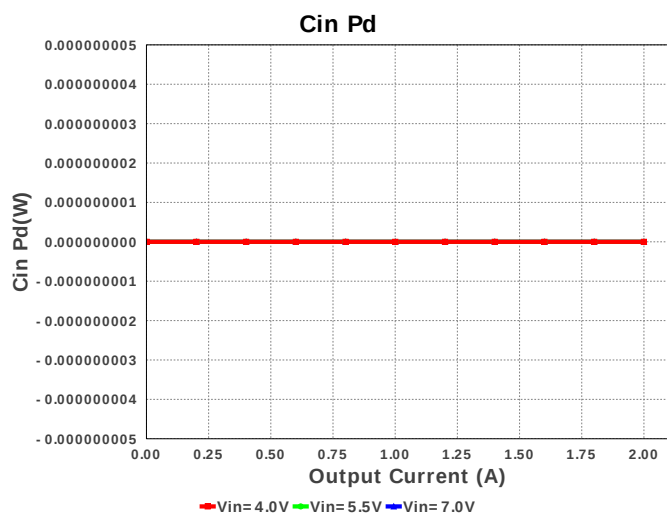
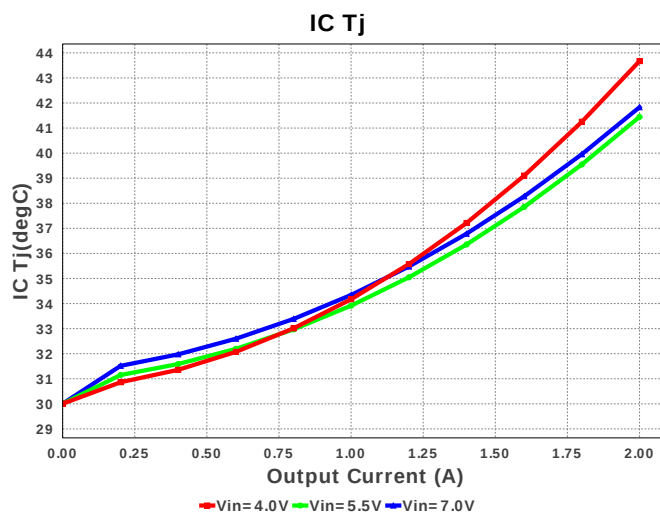
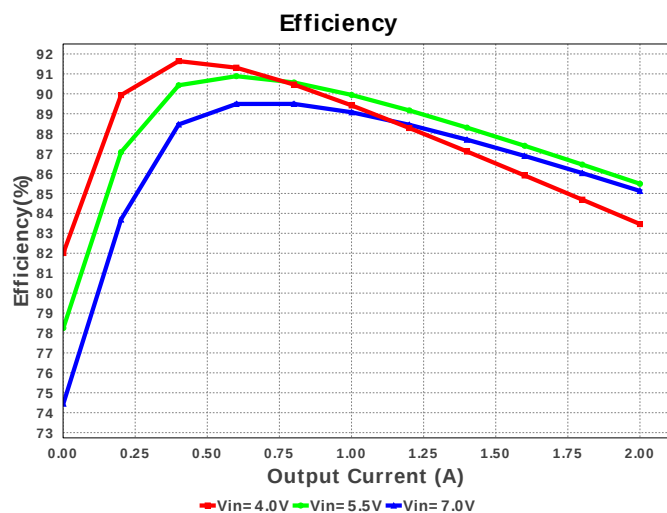


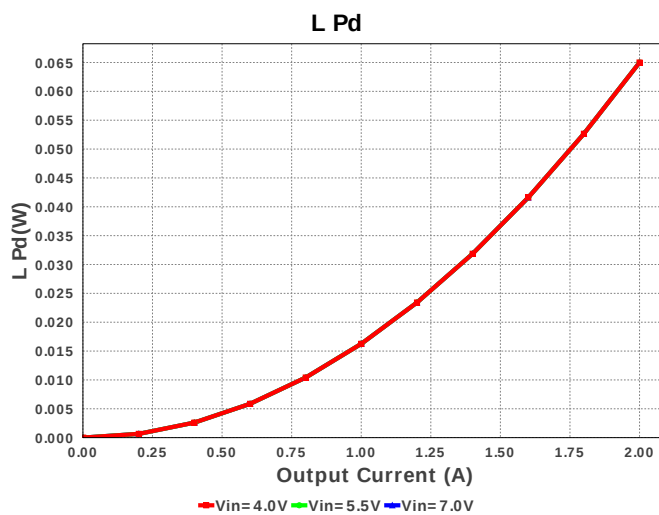
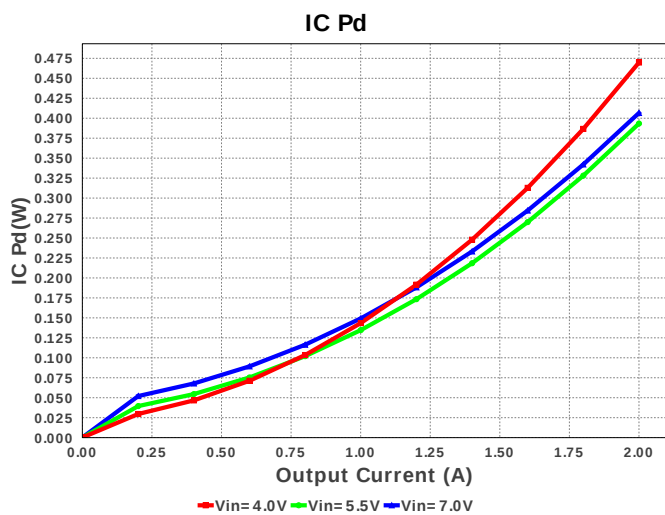
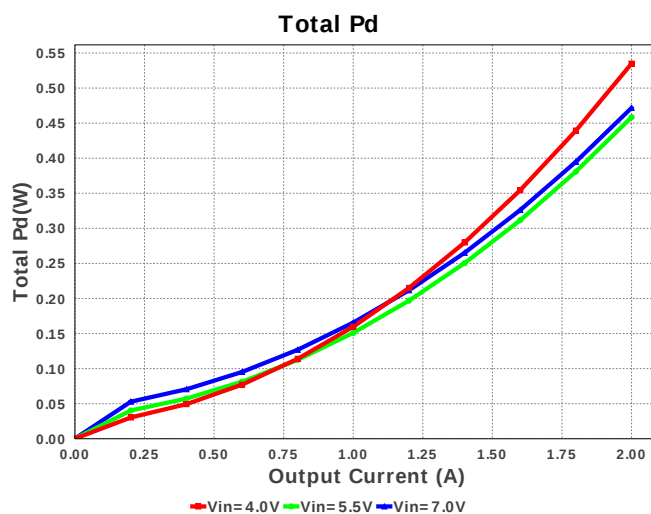
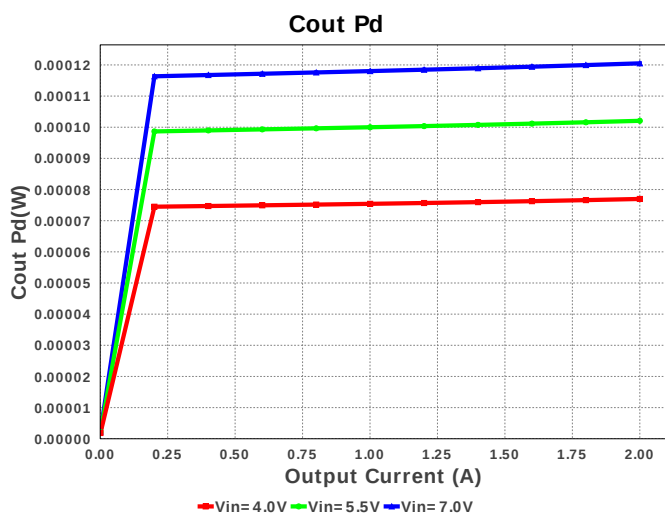
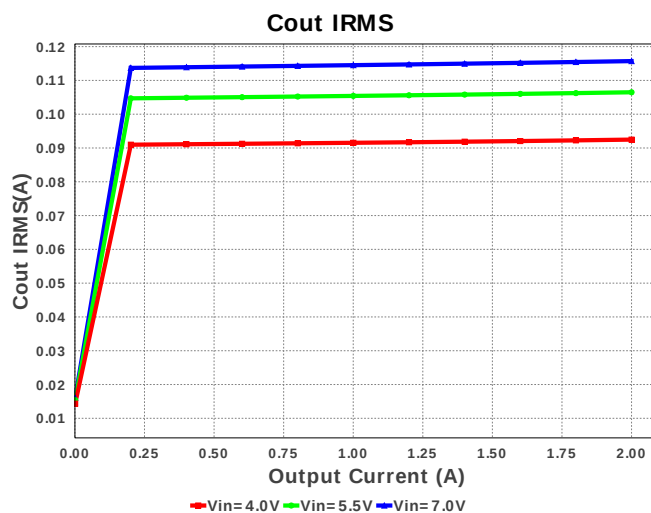
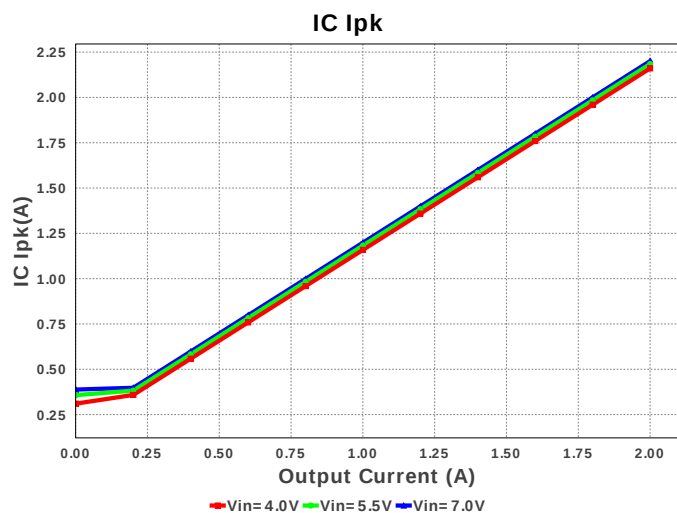
Electrical BOM

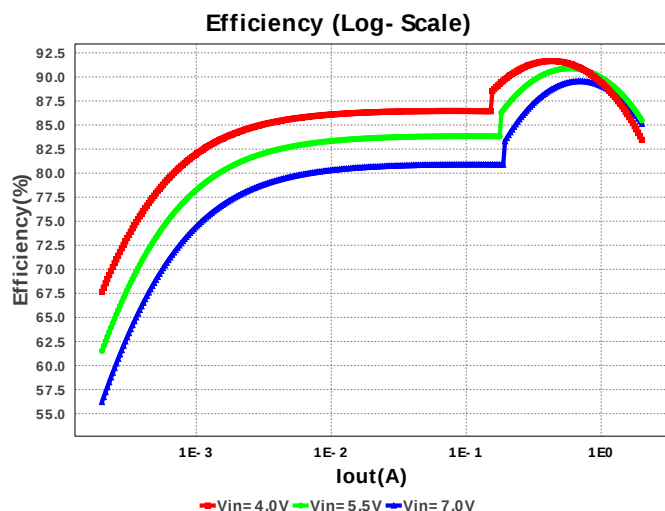
#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	Cin	Taiyo Yuden	LMK212BJ106KG-T Series= X5R	Cap= 10.0 uF VDC= 10.0 V IRMS= 0.0 A	1	\$0.03	0805 7 mm ²
2.	Cinx	MuRata	GRM155R61C104KA88D Series= X5R	Cap= 100.0 nF VDC= 16.0 V IRMS= 0.0 A	1	\$0.01	0402 3 mm ²
3.	Cout	MuRata	GRM21BR60J226ME39L Series= X5R	Cap= 22.0 uF ESR= 9.0 mOhm VDC= 6.3 V IRMS= 3.5 A	1	\$0.04	0805 7 mm ²
4.	Css	MuRata	GRM033R71C181KA01D Series= X7R	Cap= 180.0 pF VDC= 16.0 V IRMS= 0.0 A	1	\$0.01	0201 2 mm ²
5.	L1	Bourns	SRN8040-2R2Y	L= 2.2 uH DCR= 13.0 mOhm	1	\$0.22	SRN8040 100 mm ²
6.	Rfb1	Vishay-Dale	CRCW0402150KFKED Series= CRCW..e3	Res= 150.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
7.	Rfb2	Vishay-Dale	CRCW0402102KFKED Series= CRCW..e3	Res= 102.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
8.	Rpg	Vishay-Dale	CRCW0402100KFKED Series= CRCW..e3	Res= 100.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
9.	U1	Texas Instruments	TLV62130RGTR	Switcher	1	\$0.74	 S-PVQFN-N16 17 mm ²









Operating Values

#	Name	Value	Category	Description
1.	Cin IRMS	827.995 mA	Current	Input capacitor RMS ripple current
2.	Cout IRMS	115.715 mA	Current	Output capacitor RMS ripple current
3.	IC Ipk	2.2 A	Current	Peak switch current in IC
4.	Iin Avg	453.1 mA	Current	Average input current
5.	L Ipp	400.85 mA	Current	Peak-to-peak inductor ripple current
6.	BOM Count	9	General	Total Design BOM count
7.	FootPrint	144.0 mm ²	General	Total Foot Print Area of BOM components
8.	Frequency	1.407 MHz	General	Switching frequency
9.	Pout	2.7 W	General	Total output power
10.	Total BOM	\$1.08	General	Total BOM Cost
11.	Vout Actual	1.344 V	Op_Point	Vout Actual calculated based on selected voltage divider resistors
12.	Vout OP	1.35 V	Op_Point	Operational Output Voltage
13.	Duty Cycle	21.963 %	Op_point	Duty cycle
14.	Efficiency	85.127 %	Op_point	Steady state efficiency
15.	IC Tj	41.832 degC	Op_point	IC junction temperature
16.	ICThetaJA	29.1 degC/W	Op_point	IC junction-to-ambient thermal resistance
17.	IOUT_OP	2.0 A	Op_point	Iout operating point
18.	VIN_OP	7.0 V	Op_point	Vin operating point
19.	Vout p-p	4.005 mV	Op_point	Peak-to-peak output ripple voltage
20.	Cin Pd	0.0 W	Power	Input capacitor power dissipation
21.	Cout Pd	120.51 µW	Power	Output capacitor power dissipation
22.	IC Pd	406.597 mW	Power	IC power dissipation
23.	L Pd	65.0 mW	Power	Inductor power dissipation
24.	Total Pd	471.727 mW	Power	Total Power Dissipation
25.	Vout Tolerance	3.338 %		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	7.0	Maximum input voltage
3.	VinMin	4.0	Minimum input voltage
4.	Vout	1.35	Output Voltage
5.	base_pn	TLV62130	Texas Instruments Base Part Number
6.	source	DC	Input Source Type
7.	ta	30.0	Ambient temperature

Design Assistance

1. Feature Highlights: DCS-Control(TM) Architecture with upto 3A output current, 4V to 17V Input Voltage Range, Adjustable output voltage from 0.9V to 6V Selectable operating frequency, Optional Softstart Capacitor for slow startup, Tracking, Pin selectable output voltage (nominal, +5%) Seamless Power Save Mode for Light Load Efficiency, Power Good Output, 100% Duty Cycle mode, Short Circuit Protection, Thermal Shutdown

2. TLV62130 Product Folder : <http://www.ti.com/product/TLV62130> : contains the data sheet and other resources.

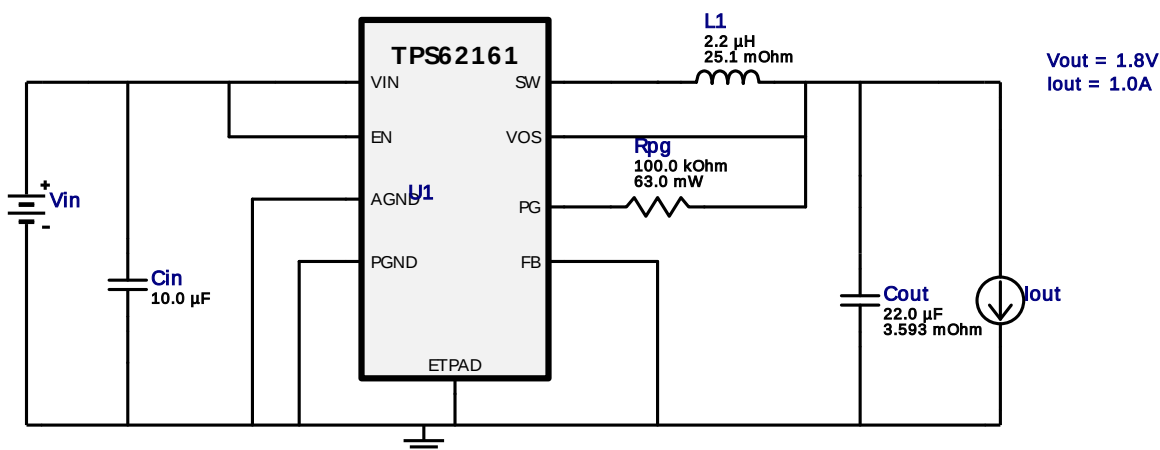


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Iout = 1.0A

Device = TPS62161DSGR
Topology = Buck
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BOM Cost = \$1.07
BOM Count = 5
Total Pd = 0.42W

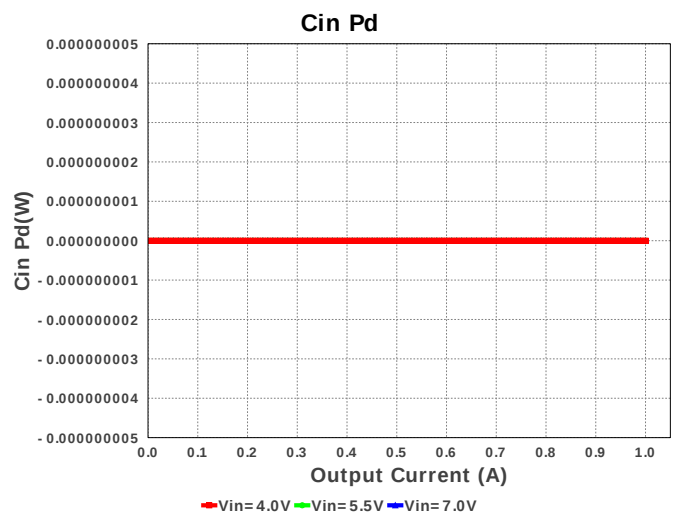
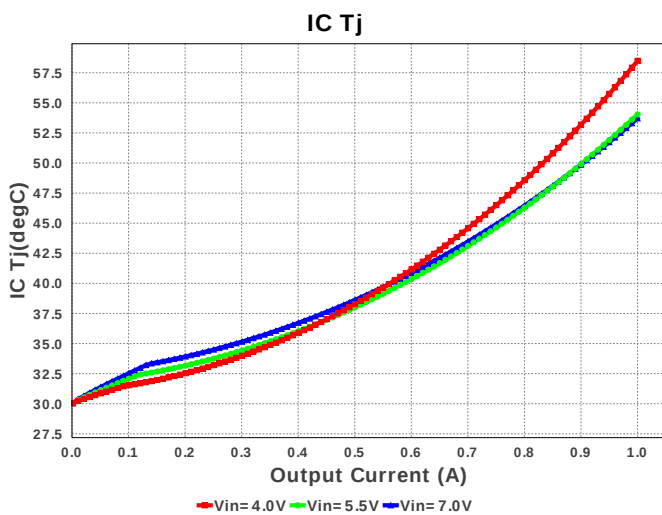
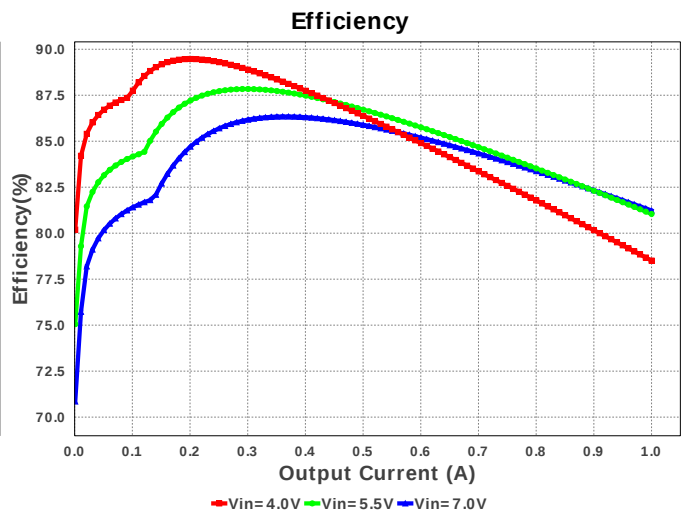
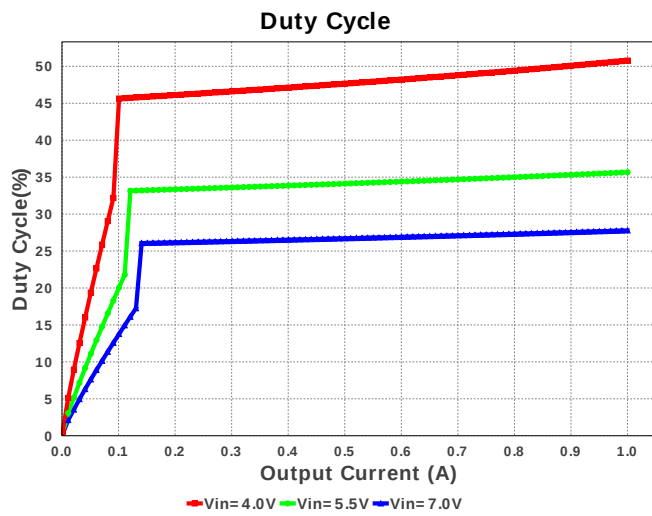
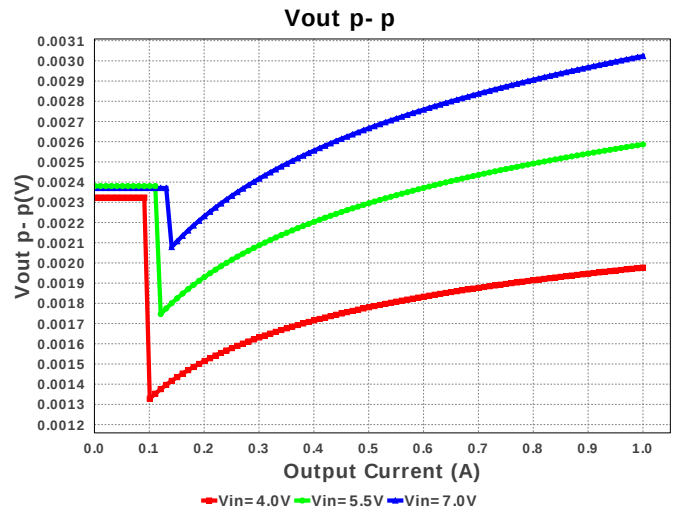
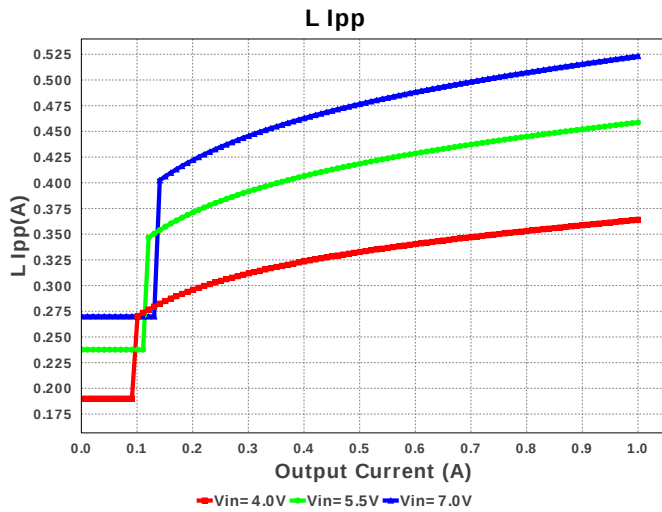
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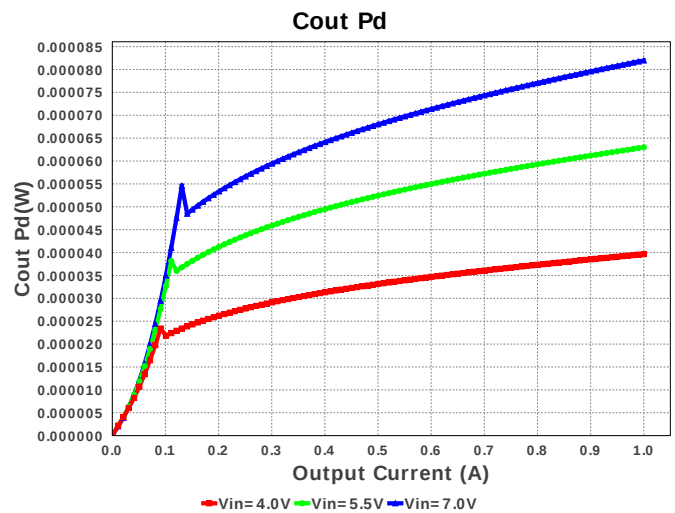
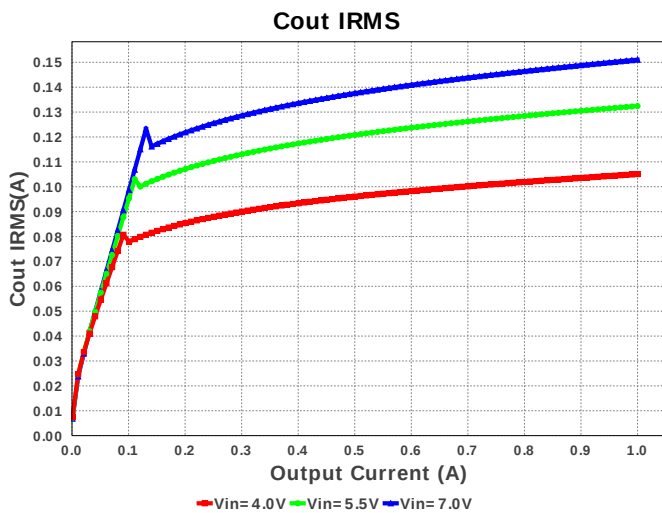
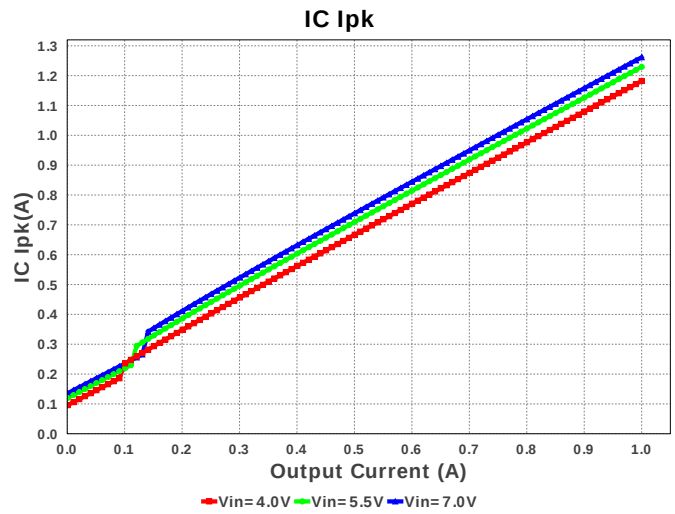
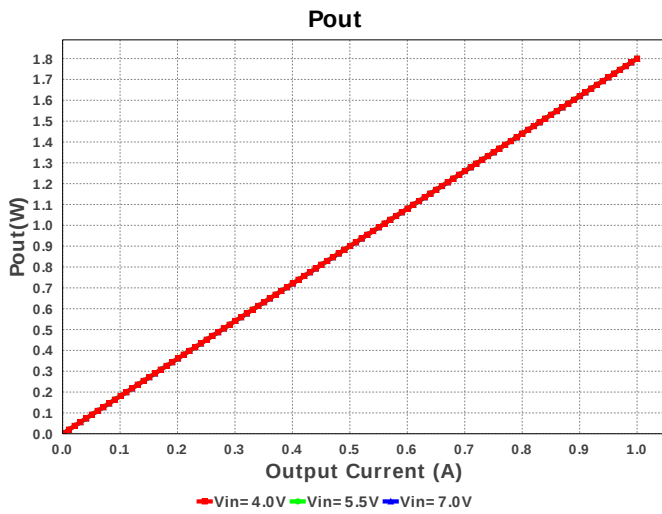
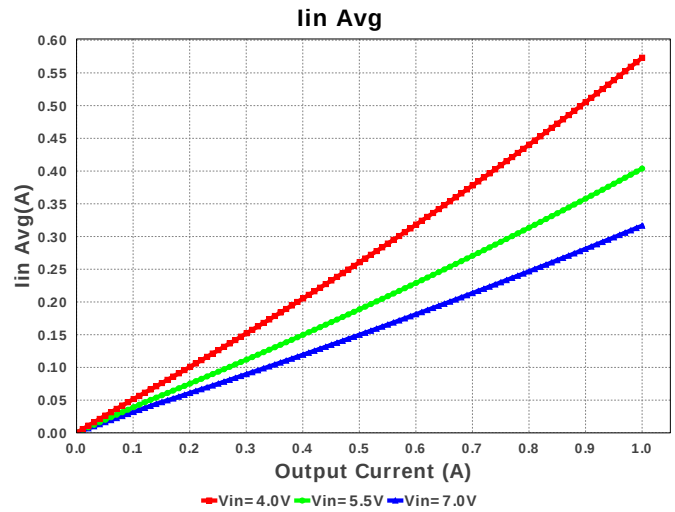
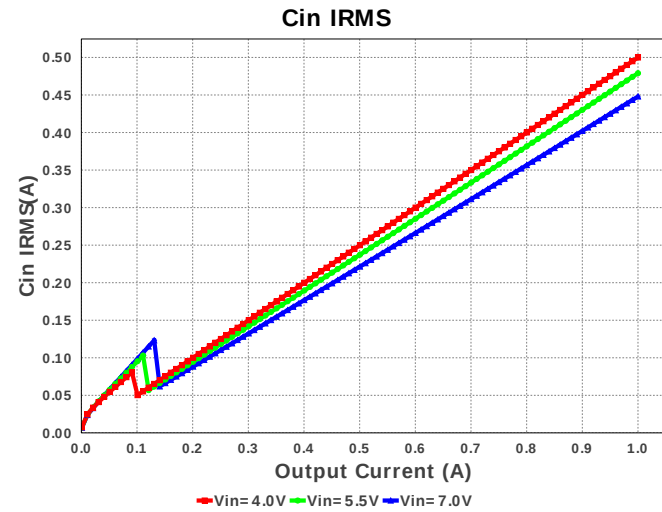
Design : 4446210/38 TPS62161DSGR
TPS62161DSGR 4.0V-7.0V to 1.80V @ 1.0A

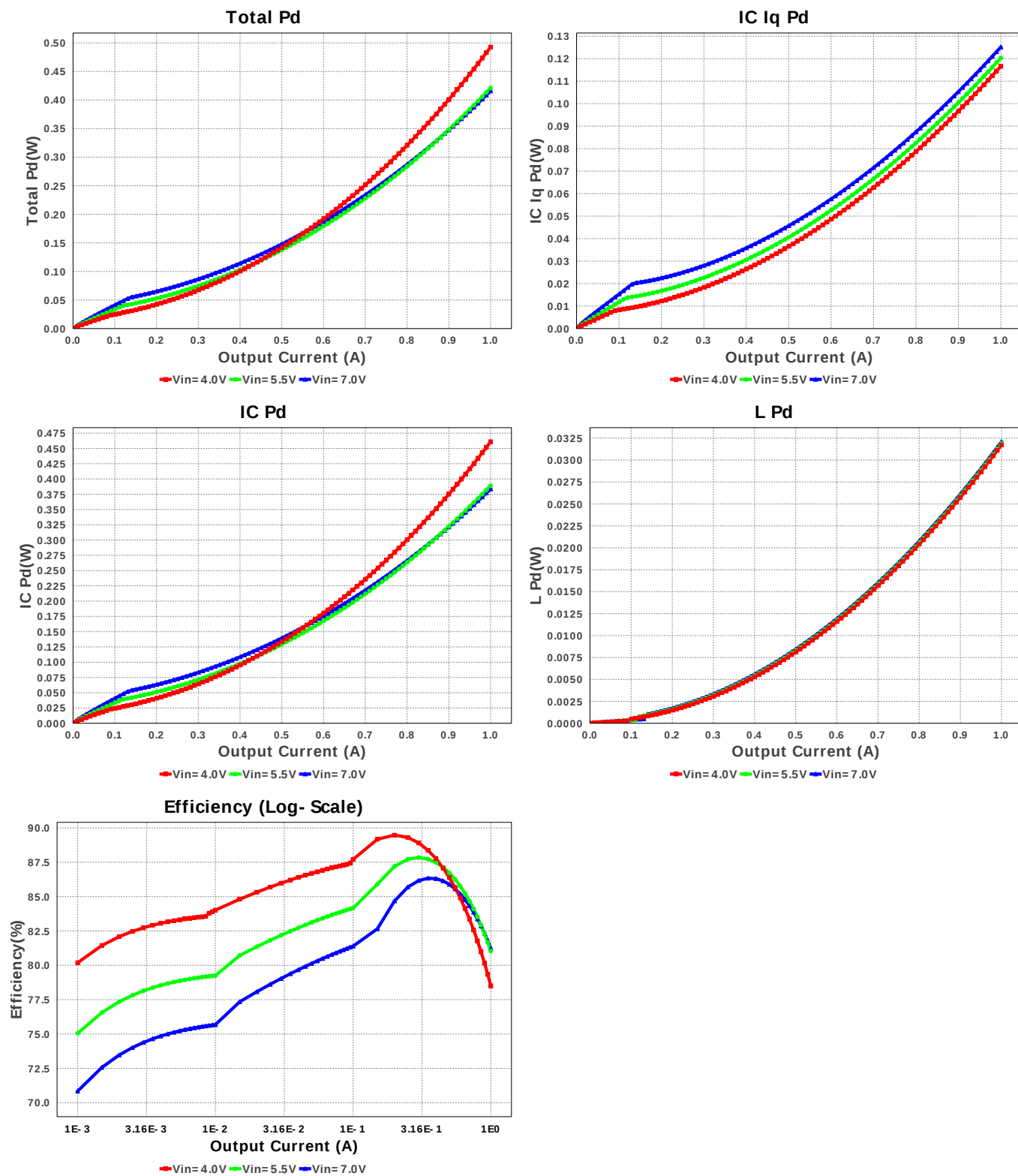


Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	Cin	Taiyo Yuden	LMK212BJ106KG-T Series= X5R	Cap= 10.0 uF VDC= 10.0 V IRMS= 0.0 A	1	\$0.03	0805 7 mm ²
2.	Cout	MuRata	GRM31CR70J226KE19L Series= X7R	Cap= 22.0 uF ESR= 3.593 mOhm VDC= 6.3 V IRMS= 3.44359 A	1	\$0.12	1206_190 11 mm ²
3.	L1	Bourns	SRN6045-2R2Y	L= 2.2 µH DCR= 25.1 mOhm	1	\$0.16	SRN6045 64 mm ²
4.	Rpg	Vishay-Dale	CRCW0402100KFKED Series= CRCW..e3	Res= 100.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
5.	U1	Texas Instruments	TPS62161DSGR	Switcher	1	\$0.75	S-PWSON-N8 10 mm ²







Operating Values

#	Name	Value	Category	Description
1.	Cin IRMS	447.975 mA	Current	Input capacitor RMS ripple current
2.	Cout IRMS	151.045 mA	Current	Output capacitor RMS ripple current
3.	IC Ipk	1.262 A	Current	Peak switch current in IC
4.	Iin Avg	316.55 mA	Current	Average input current
5.	L Ipp	523.23 mA	Current	Peak-to-peak inductor ripple current
6.	BOM Count	5	General	Total Design BOM count
7.	FootPrint	94.0 mm ²	General	Total Foot Print Area of BOM components
8.	Frequency	2.452 MHz	General	Switching frequency
9.	Pout	1.8 W	General	Total output power
10.	Total BOM	\$1.07	General	Total BOM Cost
11.	Vout OP	1.8 V	Op_Point	Operational Output Voltage

#	Name	Value	Category	Description
12.	Duty Cycle	27.792 %	Op_point	Duty cycle
13.	Efficiency	81.234 %	Op_point	Steady state efficiency
14.	IC Tj	53.71 degC	Op_point	IC junction temperature
15.	ICThetaJA	61.8 degC/W	Op_point	IC junction-to-ambient thermal resistance
16.	IOUT_OP	1.0 A	Op_point	Iout operating point
17.	VIN_OP	7.0 V	Op_point	Vin operating point
18.	Vout p-p	3.024 mV	Op_point	Peak-to-peak output ripple voltage
19.	Cin Pd	0.0 W	Power	Input capacitor power dissipation
20.	Cout Pd	81.973 µW	Power	Output capacitor power dissipation
21.	IC Iq Pd	125.152 mW	Power	IC Iq Pd
22.	IC Pd	383.651 mW	Power	IC power dissipation
23.	L Pd	32.091 mW	Power	Inductor power dissipation
24.	Total Pd	415.826 mW	Power	Total Power Dissipation

Design Inputs

#	Name	Value	Description
1.	Iout	1.0	Maximum Output Current
2.	VinMax	7.0	Maximum input voltage
3.	VinMin	4.0	Minimum input voltage
4.	Vout	1.8	Output Voltage
5.	base_pn	TPS62161	Texas Instruments Base Part Number
6.	source	DC	Input Source Type
7.	ta	30.0	Ambient temperature

Design Assistance

1. Feature Highlights: DCS-Control(TM) Architecture with upto 1A output current, 3V to 17V Input Voltage Range, 1.8V Fixed Output voltage, Seamless Power Save Mode for Light Load Efficiency, Power Good Output, 100% Duty Cycle mode, Short Circuit Protection, Thermal Shutdown

2. TPS62161 Product Folder : <http://www.ti.com/product/TPS62161> : contains the data sheet and other resources.

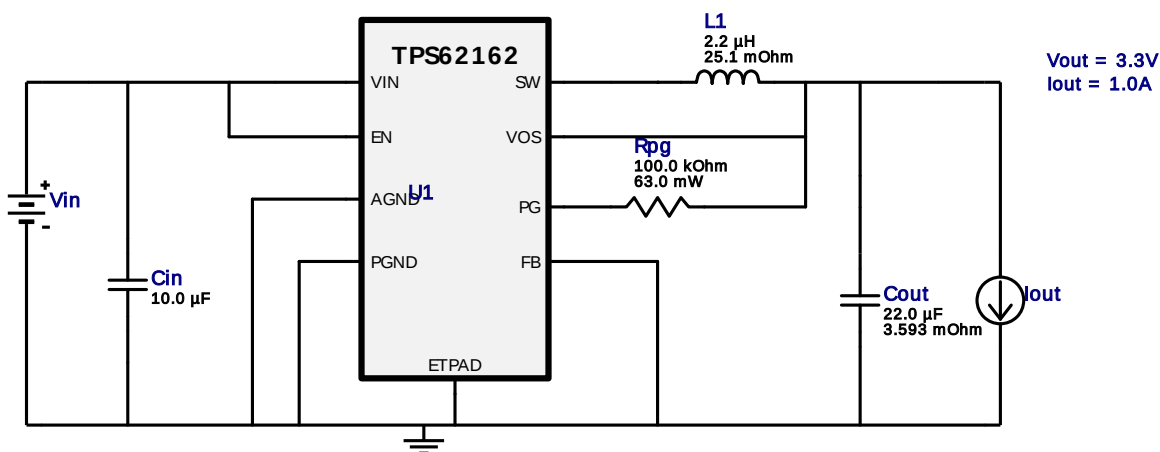


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Iout = 1.0A

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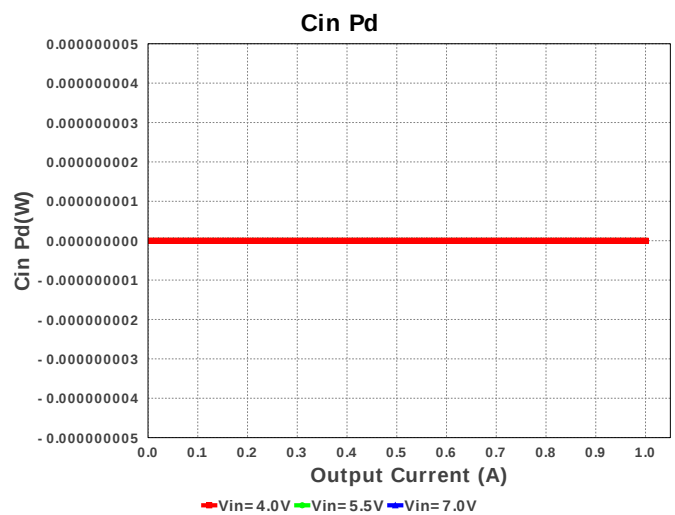
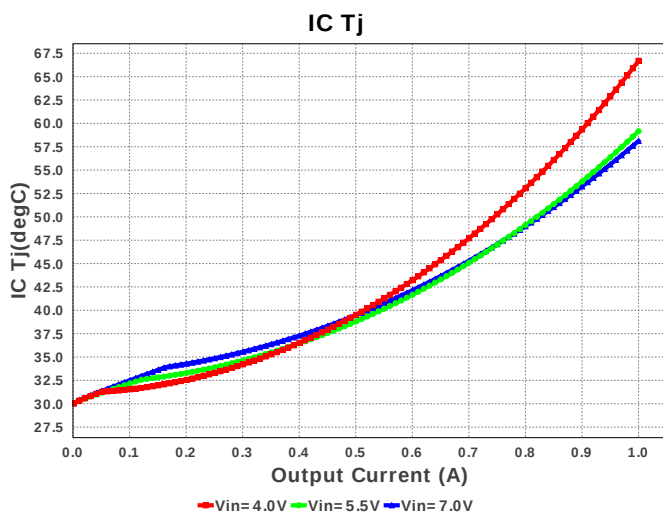
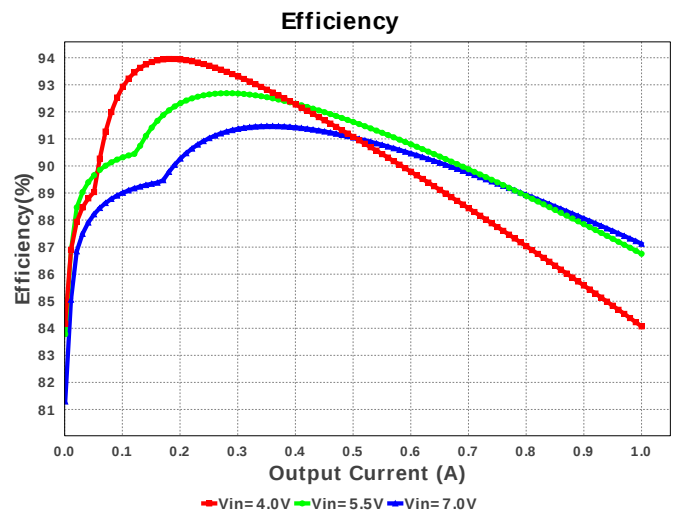
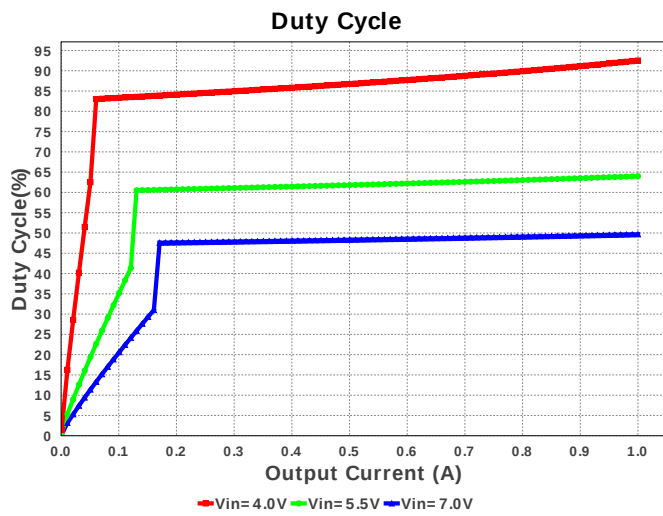
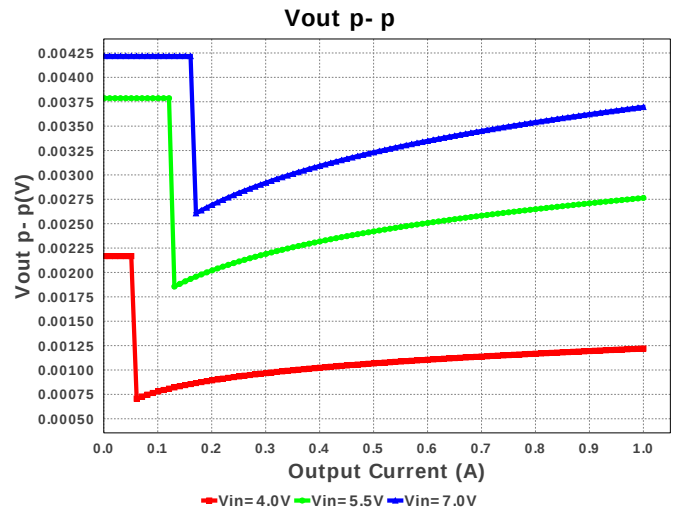
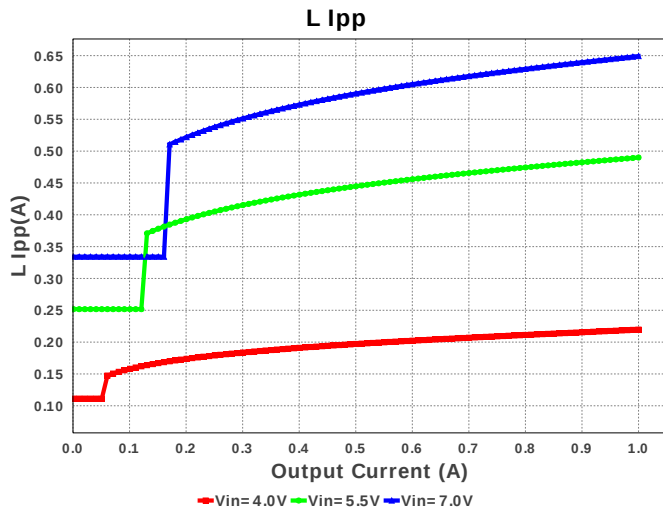
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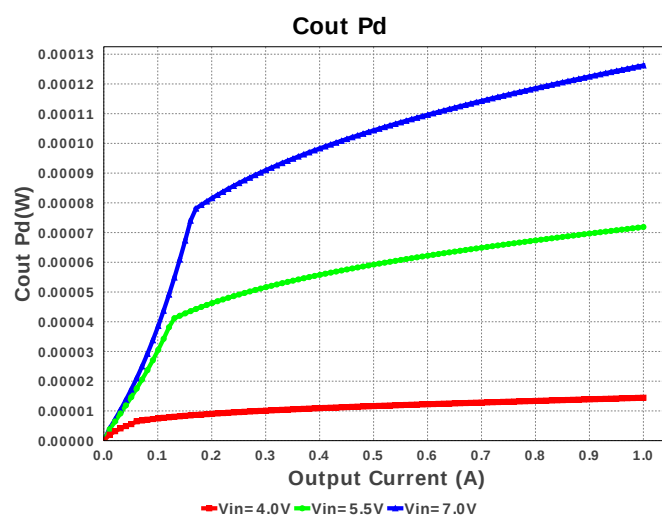
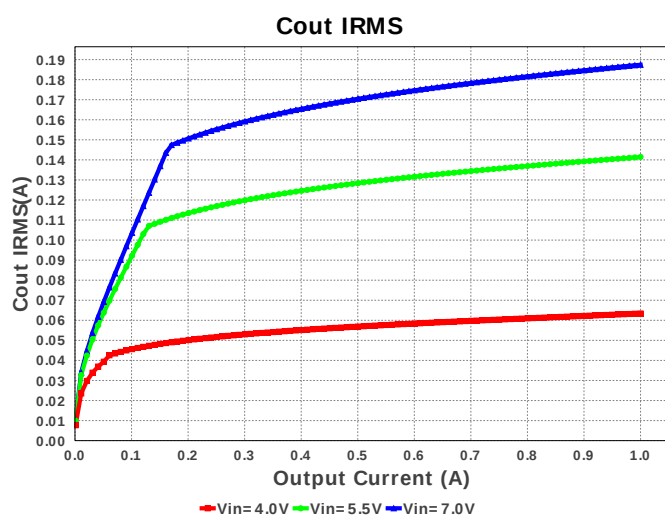
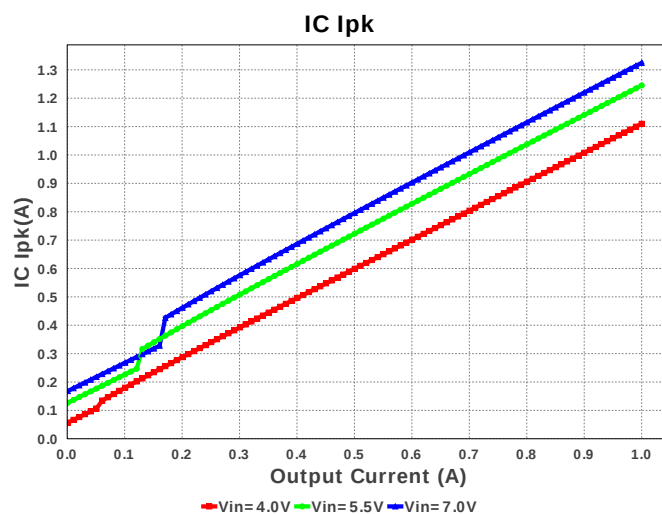
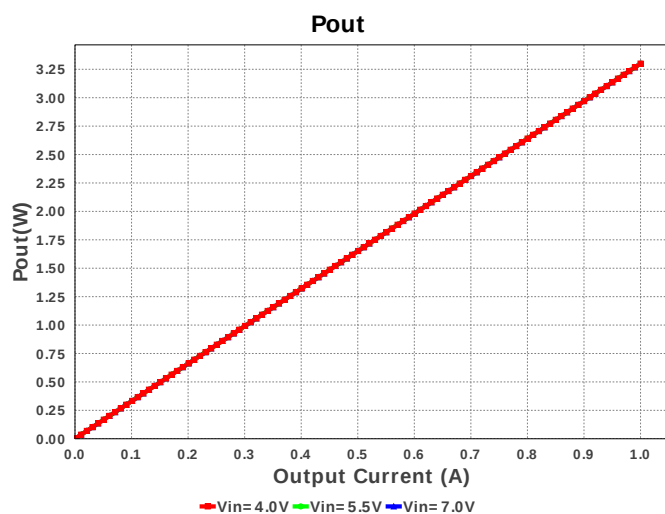
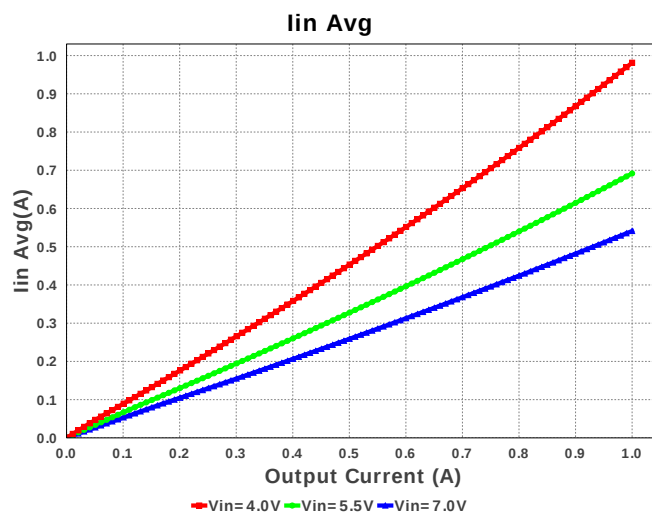
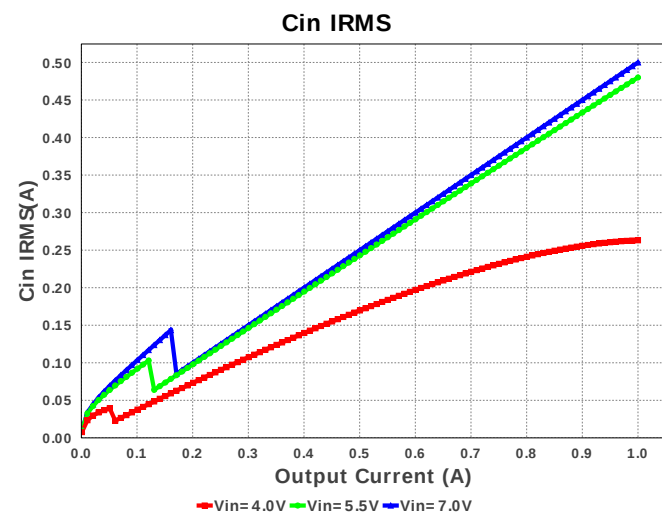
Design : 4446210/39 TPS62162DSGR
TPS62162DSGR 4.0V-7.0V to 3.30V @ 1.0A

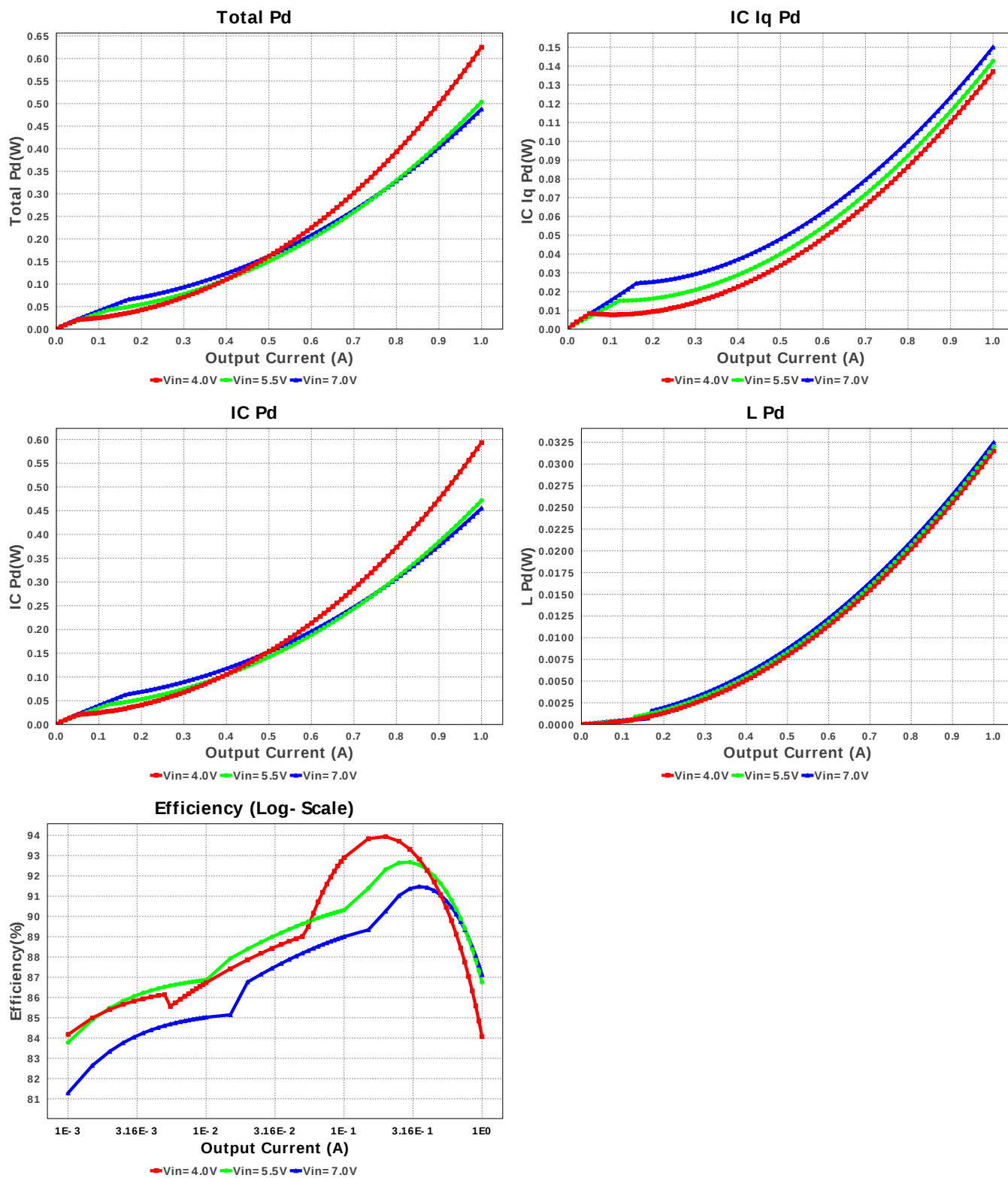


Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	Cin	Taiyo Yuden	LMK212BJ106KG-T Series= X5R	Cap= 10.0 uF VDC= 10.0 V IRMS= 0.0 A	1	\$0.03	0805 7 mm ²
2.	Cout	MuRata	GRM31CR70J226KE19L Series= X7R	Cap= 22.0 uF ESR= 3.593 mOhm VDC= 6.3 V IRMS= 3.44359 A	1	\$0.12	1206_190 11 mm ²
3.	L1	Bourns	SRN6045-2R2Y	L= 2.2 µH DCR= 25.1 mOhm	1	\$0.16	SRN6045 64 mm ²
4.	Rpg	Vishay-Dale	CRCW0402100KFKED Series= CRCW..e3	Res= 100.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
5.	U1	Texas Instruments	TPS62162DSGR	Switcher	1	\$0.75	S-PWSON-N8 10 mm ²







Operating Values

#	Name	Value	Category	Description
1.	Cin IRMS	499.99 mA	Current	Input capacitor RMS ripple current
2.	Cout IRMS	187.425 mA	Current	Output capacitor RMS ripple current
3.	IC Ipk	1.325 A	Current	Peak switch current in IC
4.	Iin Avg	541.09 mA	Current	Average input current
5.	L Ipp	649.26 mA	Current	Peak-to-peak inductor ripple current
6.	BOM Count	5	General	Total Design BOM count
7.	FootPrint	94.0 mm ²	General	Total Foot Print Area of BOM components
8.	Frequency	2.513 MHz	General	Switching frequency
9.	Pout	3.3 W	General	Total output power
10.	Total BOM	\$1.07	General	Total BOM Cost
11.	Vout OP	3.3 V	Op_Point	Operational Output Voltage

#	Name	Value	Category	Description
12.	Duty Cycle	49.676 %	Op_point	Duty cycle
13.	Efficiency	87.126 %	Op_point	Steady state efficiency
14.	IC Tj	58.119 degC	Op_point	IC junction temperature
15.	ICThetaJA	61.8 degC/W	Op_point	IC junction-to-ambient thermal resistance
16.	IOUT_OP	1.0 A	Op_point	Iout operating point
17.	VIN_OP	7.0 V	Op_point	Vin operating point
18.	Vout p-p	3.696 mV	Op_point	Peak-to-peak output ripple voltage
19.	Cin Pd	0.0 W	Power	Input capacitor power dissipation
20.	Cout Pd	126.215 μ W	Power	Output capacitor power dissipation
21.	IC Iq Pd	150.116 mW	Power	IC Iq Pd
22.	IC Pd	455.007 mW	Power	IC power dissipation
23.	L Pd	32.477 mW	Power	Inductor power dissipation
24.	Total Pd	487.619 mW	Power	Total Power Dissipation

Design Inputs

#	Name	Value	Description
1.	Iout	1.0	Maximum Output Current
2.	VinMax	7.0	Maximum input voltage
3.	VinMin	4.0	Minimum input voltage
4.	Vout	3.3	Output Voltage
5.	base_pn	TPS62162	Texas Instruments Base Part Number
6.	source	DC	Input Source Type
7.	ta	30.0	Ambient temperature

Design Assistance

1. Feature Highlights: DCS-Control(TM) Architecture with upto 1A output current, 3V to 17V Input Voltage Range, 3.3V Fixed Output voltage, Seamless Power Save Mode for Light Load Efficiency, Power Good Output, 100% Duty Cycle mode, Short Circuit Protection, Thermal Shutdown

2. TPS62162 Product Folder : <http://www.ti.com/product/TPS62162> : contains the data sheet and other resources.

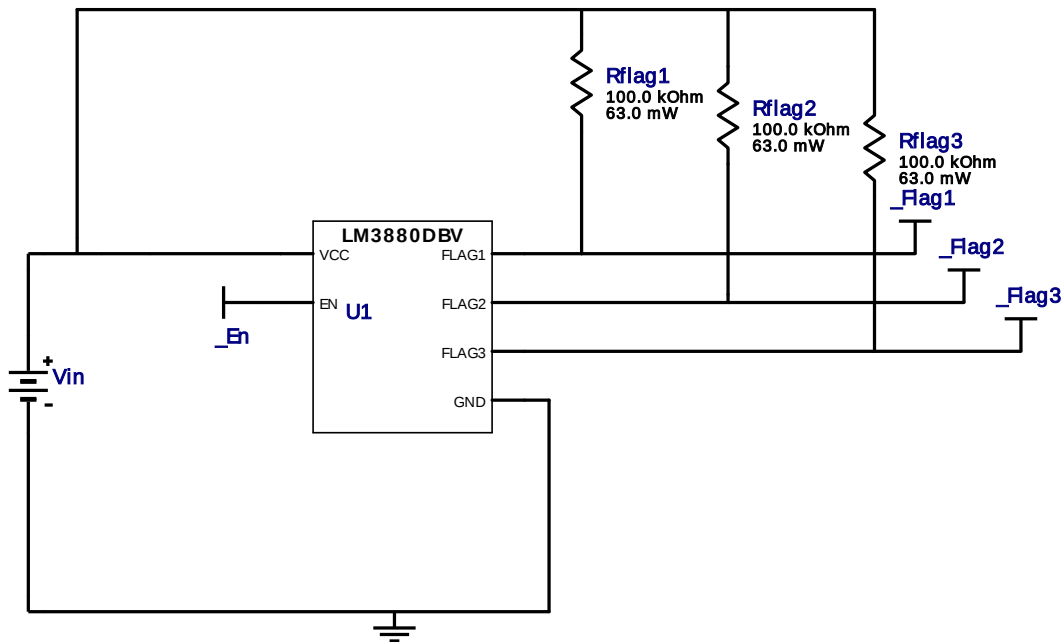


Vout = 3.3V
Iout = 0.0A

Device = LM3880MF-1AE/NOPB
Topology = SEQUENCER
Created = 8/2/16 7:30:41 PM
BOM Cost = \$0.48
BOM Count = 4
Total Pd = 0.0W

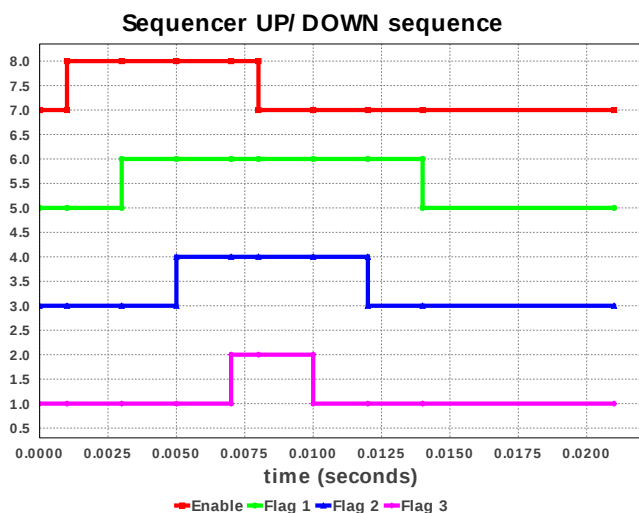
WEBENCH® Design Report

Design : 4446210/40 LM3880MF-1AE/NOPB
Design 40 - LM3880MF-1AE/NOPB



Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	Rflag1	Vishay-Dale	CRCW0402100KFKED Series= CRCW..e3	Res= 100.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
2.	Rflag2	Vishay-Dale	CRCW0402100KFKED Series= CRCW..e3	Res= 100.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
3.	Rflag3	Vishay-Dale	CRCW0402100KFKED Series= CRCW..e3	Res= 100.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
4.	U1	Texas Instruments	LM3880MF-1AE/NOPB	Switcher	1	\$0.45	R-PDSO-G6 10 mm ²



Operating Values

#	Name	Value	Category	Description
1.	BOM Count	4	General	Total Design BOM count
2.	FootPrint	19.0 mm ²	General	Total Foot Print Area of BOM components
3.	Total BOM	\$0.48	General	Total BOM Cost
4.	Total Pd	82.5 μ W	Power	Total Power Dissipation
5.	Flag Voltage	3.3 V		Flag Voltage
6.	Flag1 Down delay (From EN high to low)	6.0 ms		Flag Delay
7.	Flag1 Up delay (From EN low to high)	2.0 ms		Flag Delay
8.	Flag2 Down delay (From EN high to low)	4.0 ms		Flag Delay
9.	Flag2 Up delay (From EN low to high)	4.0 ms		Flag Delay
10.	Flag3 Down delay (From EN high to low)	2.0 ms		Flag Delay
11.	Flag3 Up delay (From EN low to high)	6.0 ms		Flag Delay
12.	Flags Used	2.0		Flags Used
13.	Total Flags	3.0		Total Flags
14.	Vcc	3.3 V		Vcc

Design Inputs

#	Name	Value	Description
1.	Iout	1.0 μ	Maximum Output Current
2.	VinMax	3.3	Maximum input voltage
3.	VinMin	3.3	Minimum input voltage
4.	Vout	3.3	Output Voltage
5.	base_pn	LM3880	Texas Instruments Base Part Number
6.	source	DC	Input Source Type
7.	ta	30.0	Ambient temperature

Design Assistance

1. LM3880 Product Folder : <http://www.ti.com/product/LM3880> : contains the data sheet and other resources.

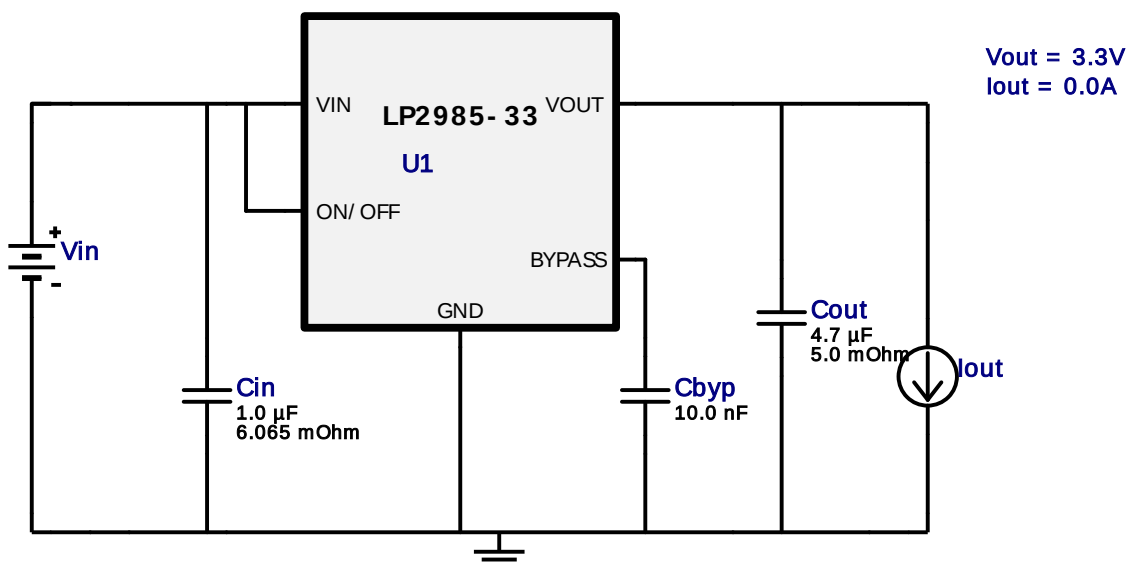


Vout = 3.3V
Iout = 0.0A

Device = LP2985-33DBVRE4
Topology = LDO
Created = 8/2/16 7:30:42 PM
BOM Cost = \$0.21
BOM Count = 4
Total Pd = 0.0W

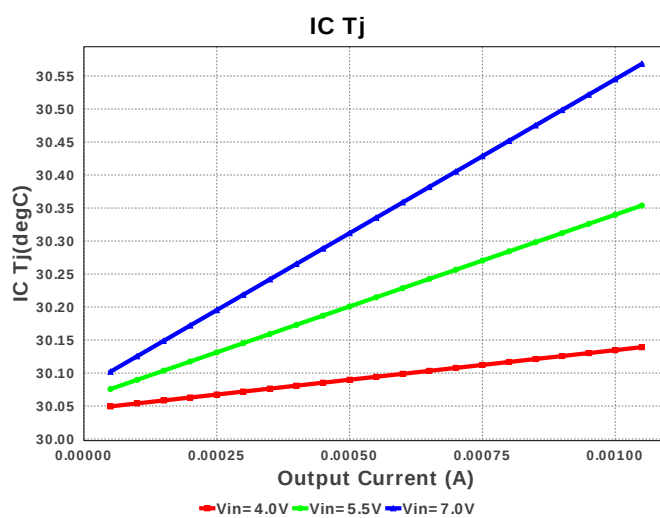
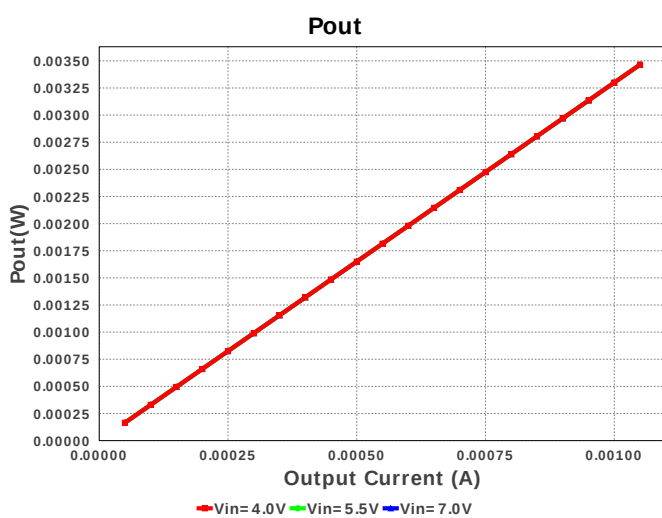
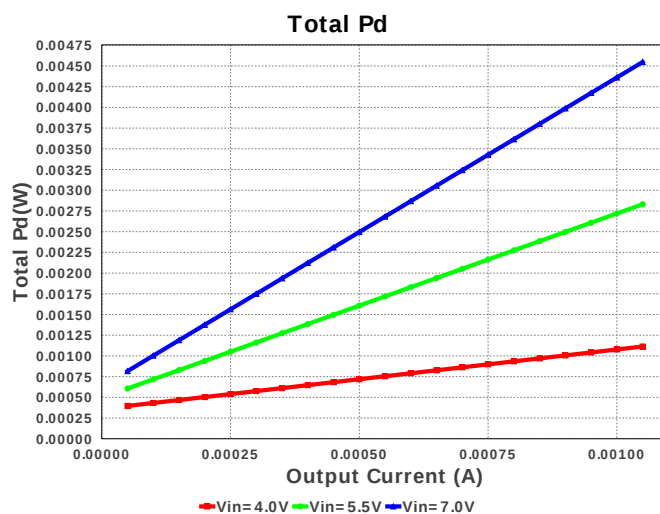
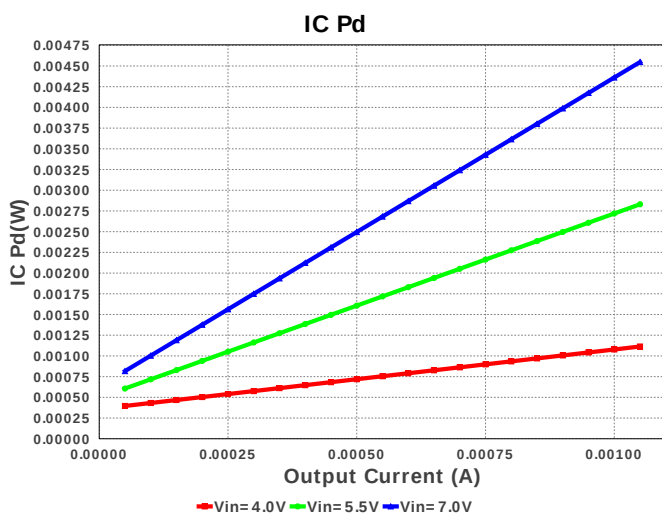
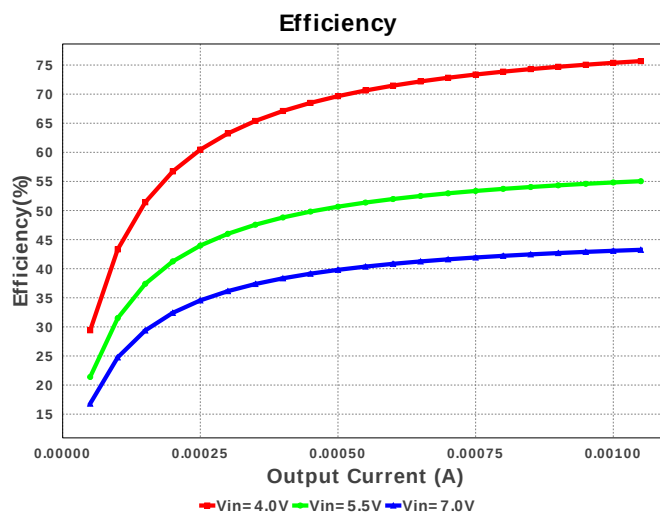
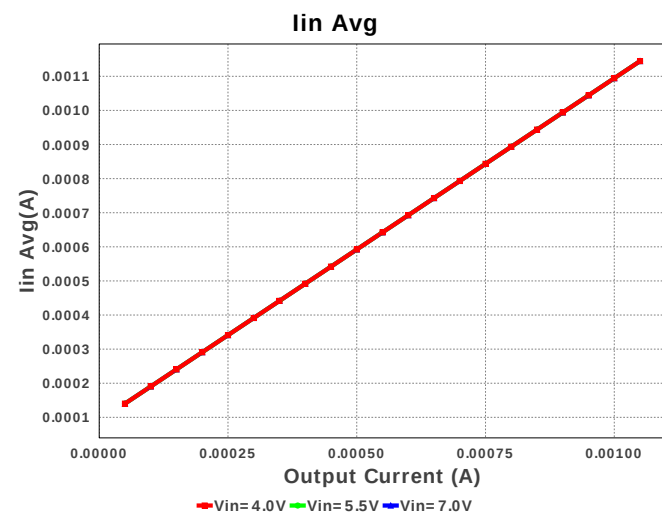
WEBENCH® Design Report

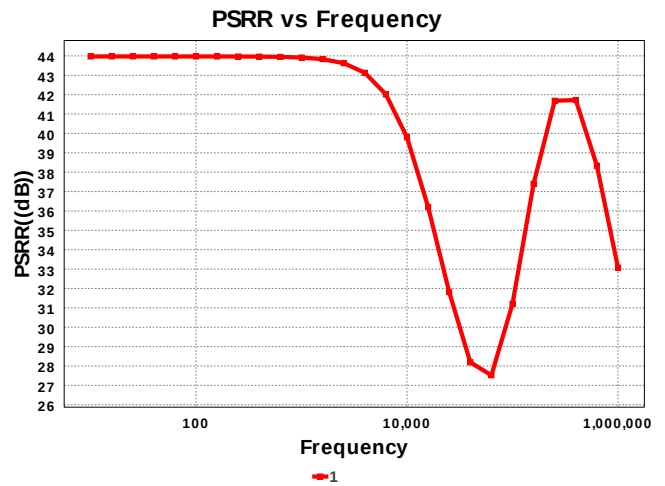
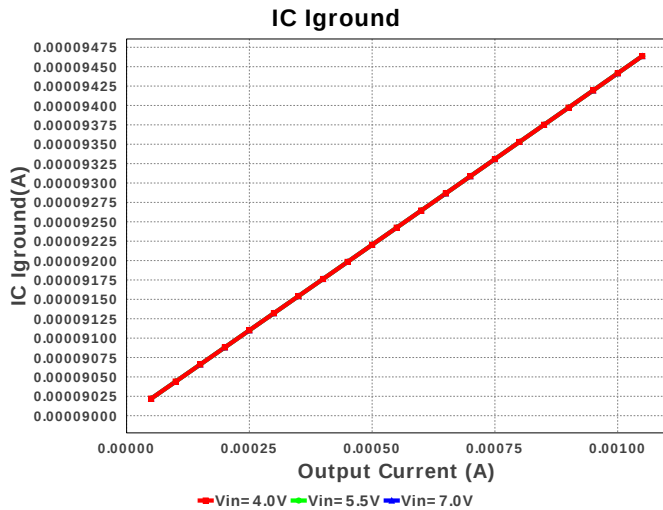
Design : 4446210/41 LP2985-33DBVRE4
LP2985-33DBVRE4 4.0V-7.0V to 3.30V @ 0.001A



Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	Cbyp	MuRata	GRM033R61A103KA01D Series= X5R	Cap= 10.0 nF VDC= 10.0 V IRMS= 0.0 A	1	\$0.01	0201 2 mm ²
2.	Cin	MuRata	GRM188R61A105KA61D Series= X5R	Cap= 1.0 uF ESR= 6.065 mOhm VDC= 10.0 V IRMS= 1.30675 A	1	\$0.01	0603 5 mm ²
3.	Cout	MuRata	GRM188R60J475KE19D Series= X5R	Cap= 4.7 uF ESR= 5.0 mOhm VDC= 6.3 V IRMS= 2.0 A	1	\$0.01	0603 5 mm ²
4.	U1	Texas Instruments	LP2985-33DBVRE4	Switcher	1	\$0.18	R-PDSO-G5 16 mm ²





Operating Values

#	Name	Value	Category	Description
1.	IC Iground	94.415 μ A	Current	IC ground current
2.	Iin Avg	1.094 mA	Current	Average input current
3.	BOM Count	4	General	Total Design BOM count
4.	FootPrint	28.0 mm ²	General	Total Foot Print Area of BOM components
5.	IC Tolerance	132.0 mV	General	IC Feedback Tolerance
6.	Pout	3.3 mW	General	Total output power
7.	Total BOM	\$0.21	General	Total BOM Cost
8.	Vin p-p	70.0 mV	Op_Point	Input Source ripple voltage
9.	Vout OP	3.3 V	Op_Point	Operational Output Voltage
10.	Efficiency	43.076 %	Op_point	Steady state efficiency
11.	IC Tj	30.545 degC	Op_point	IC junction temperature
12.	ICThetaJA	125.0 degC/W	Op_point	IC junction-to-ambient thermal resistance
13.	IOUT_OP	1.0 mA	Op_point	Iout operating point
14.	Input Ripple Frequency	100.0 kHz	Op_point	Input Source Ripple Frequency for PSRR Calculation
15.	PSRR est.	-31.208 dB	Op_point	Power Supply Rejection Ratio, estimated
16.	VIN_OP	7.0 V	Op_point	Vin operating point
17.	Vout p-p	1.926 mV	Op_point	Peak-to-peak output ripple voltage
18.	IC Pd	4.361 mW	Power	IC power dissipation
19.	Total Pd	4.361 mW	Power	Total Power Dissipation
20.	Vout Tolerance	4.0 %		Vout Tolerance based on IC Tolerance (no load) and voltage divider resistors if applicable

Design Inputs

#	Name	Value	Description
1.	Iout	1.0 m	Maximum Output Current
2.	VinMax	7.0	Maximum input voltage
3.	VinMin	4.0	Minimum input voltage
4.	Vout	3.3	Output Voltage
5.	base_pn	LP2985-33	Texas Instruments Base Part Number
6.	source	DC	Input Source Type
7.	ta	30.0	Ambient temperature

Design Assistance

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- LP2985-33 Product Folder : <http://www.ti.com/product/lp2985-18> : contains the data sheet and other resources.

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