# 3.8V-40V Vin, 3.5A, High Efficiency Synchronous Step-down DCDC Converter with Programmable Frequency

## FEATURES

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## DESCRIPTION

## APPLICATIONS

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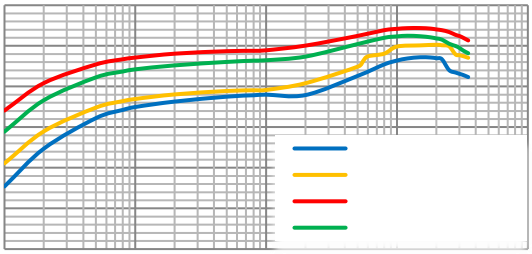
## TYPICAL APPLICATION



## REVISION HISTORY

## DEVICE ORDER INFORMATION

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## ABSOLUTE MAXIMUM RATINGS

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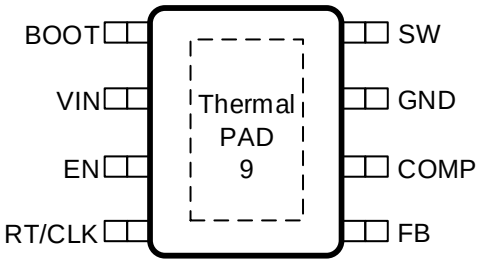
## PIN CONFIGURATION




## PIN FUNCTIONS

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## RECOMMENDED OPERATING CONDITIONS

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## ESD RATINGS

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## THERMAL INFORMATION

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# ELECTRICAL CHARACTERISTICS

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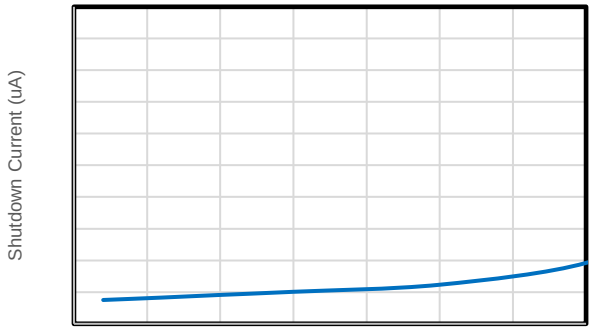
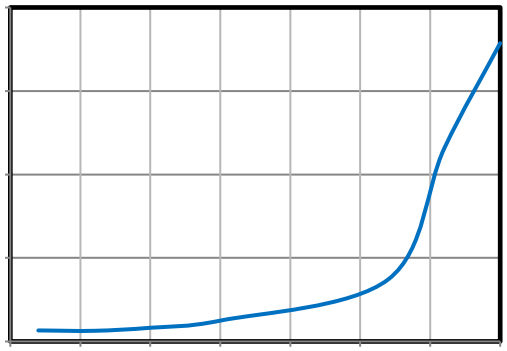
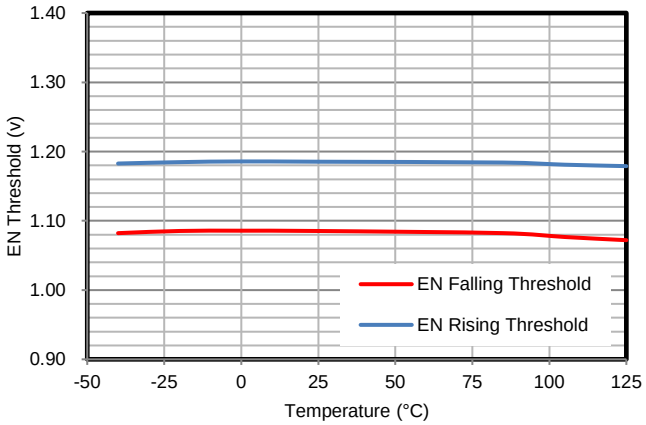
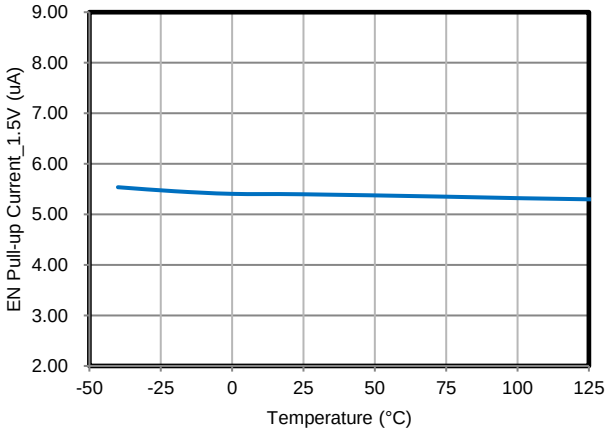
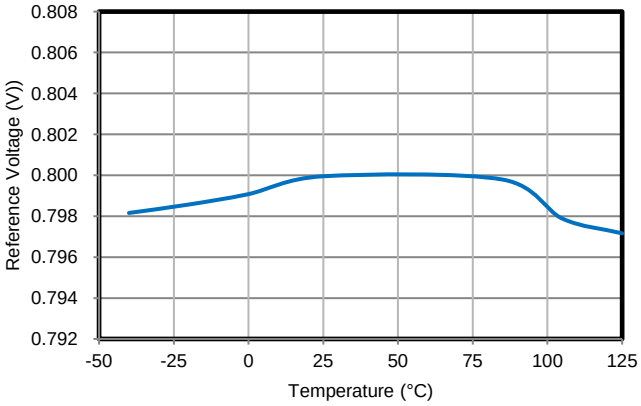
## TYPICAL CHARACTERISTICS

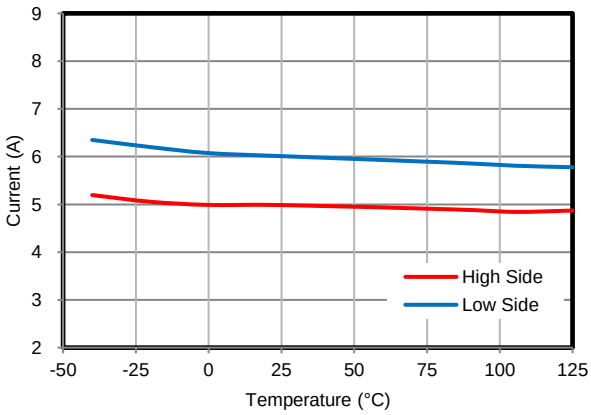

Shutdown Current (uA)



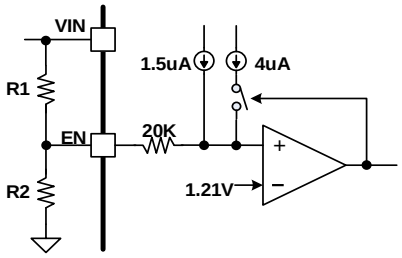

1.40
1.30
1.20
1.10
1.00
0.90
EN Threshold (v)
EN Falling Threshold
EN Rising Threshold
-50
-25
0
25
50
75
100
125
Temperature (°C)

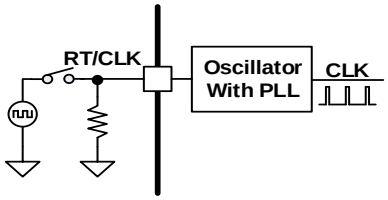

9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
EN Pull-up Current_1.5V (uA)
-50
-25
0
25
50
75
100
125
Temperature (°C)


0.808
0.806
0.804
0.802
0.800
0.798
0.796
0.794
0.792
Reference Voltage (V))
-50
-25
0
25
50
75
100
125
Temperature (°C)


9
8
7
6
5
4
3
2
Current (A)
High Side
Low Side
-50
-25
0
25
50
75
100
125
Temperature (°C)

OPERATION


VIN
R1
EN
R2
1.5uA
4uA
20K
1.21V
+
−


RT/CLK
Oscillator
With PLL
CLK

## APPLICATION INFORMATION

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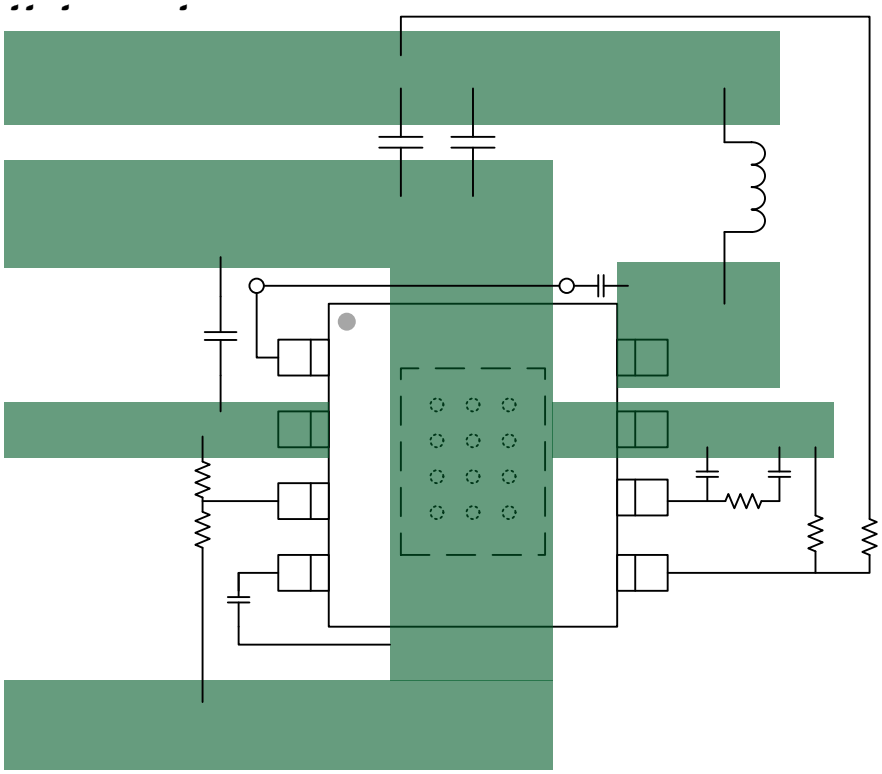
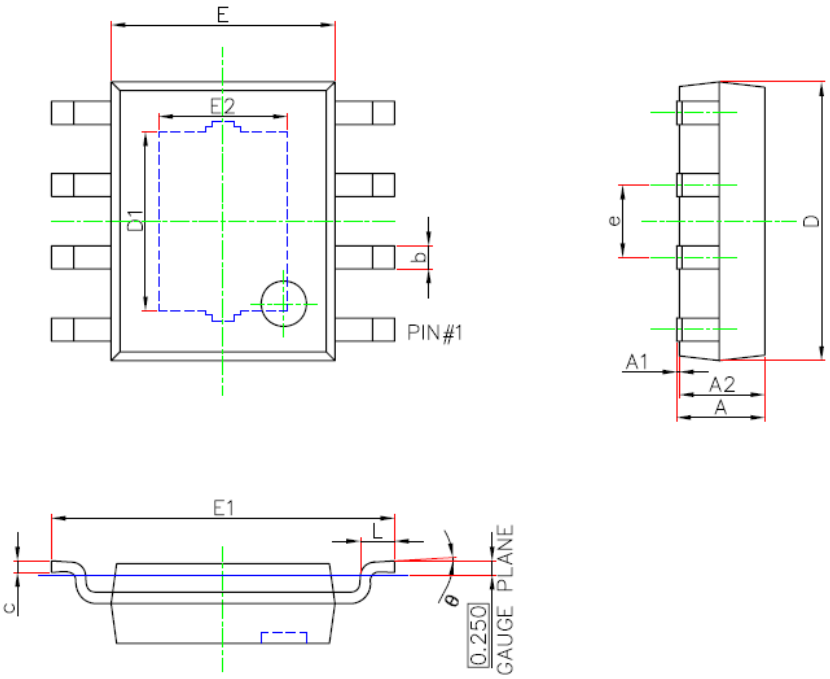


## PACKAGE INFORMATION

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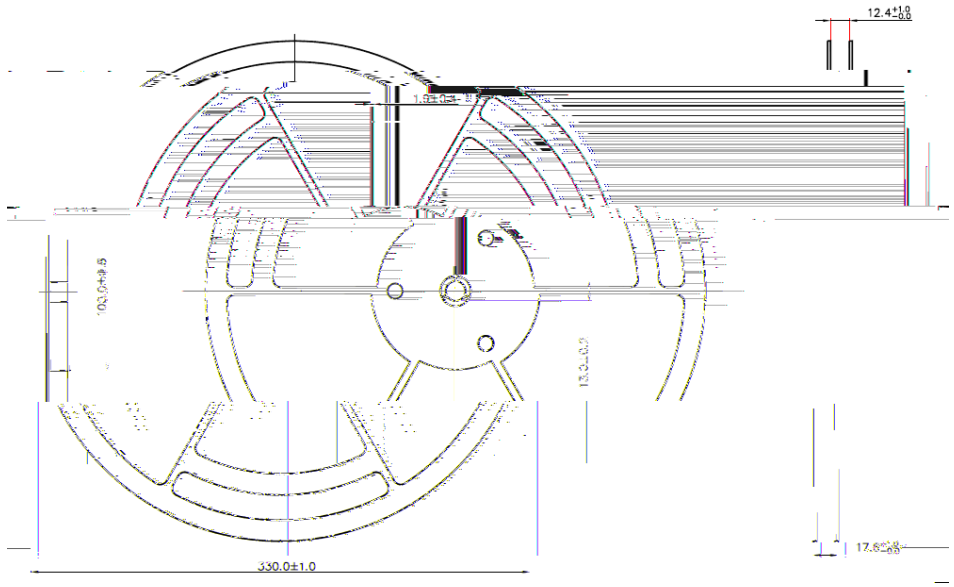
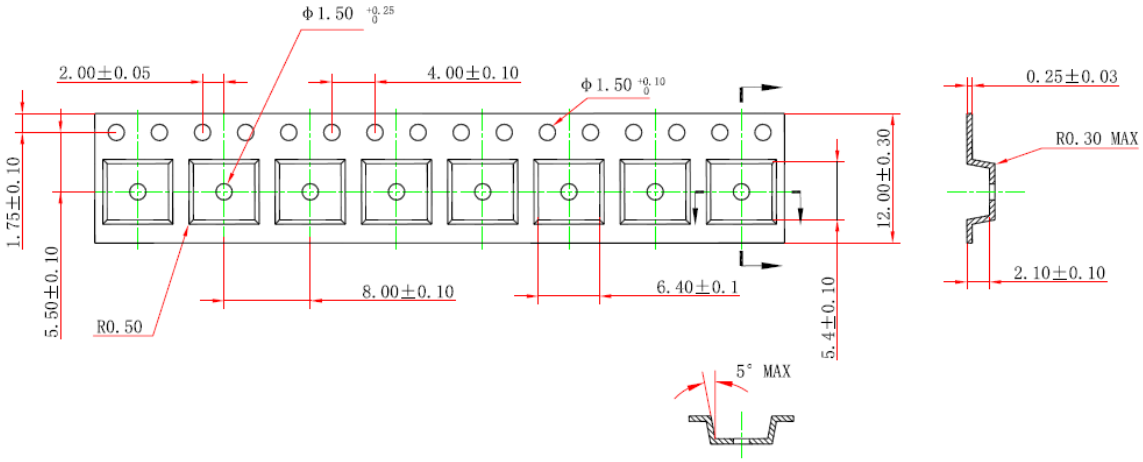
TAPE AND REEL INFORMATION



## RELATED PARTS

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