3.8V-40V Vin, 3.5A, High Efficiency Synchronous Step-down DCDC Converter with Internal Compensation

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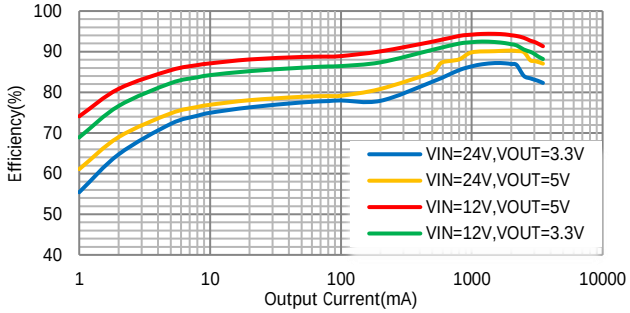

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SYMBOL	PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
Power Supply						
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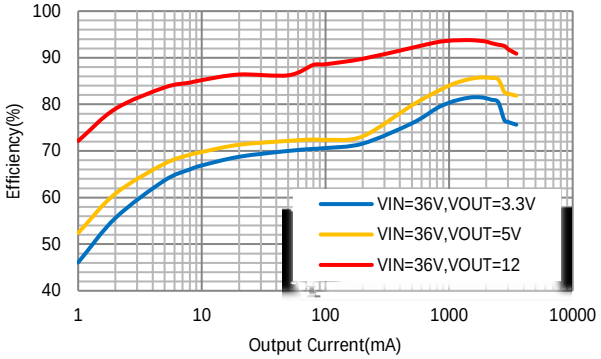

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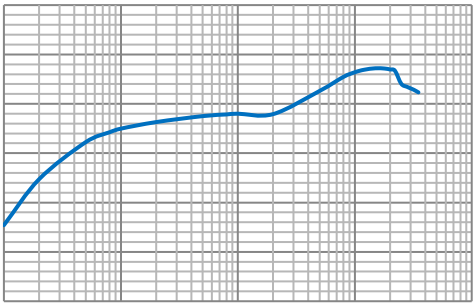

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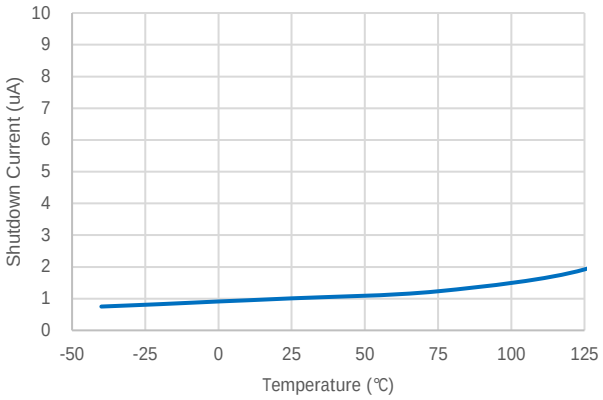
Shutdown Current (uA)
Temperature (℃)

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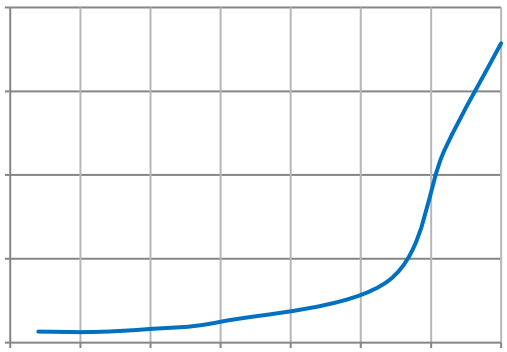

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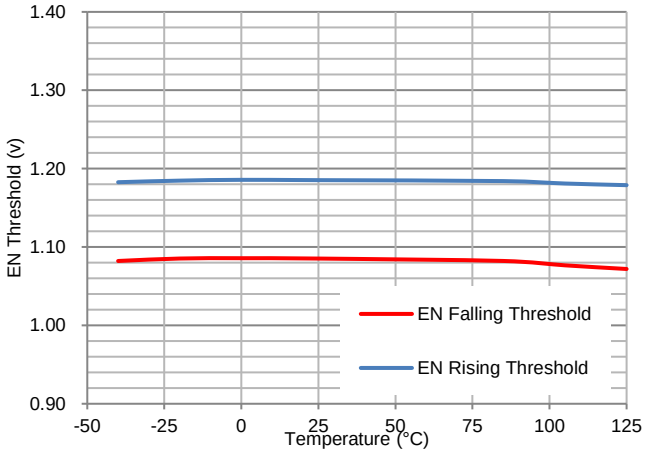
EN Threshold (v)
EN Falling Threshold
EN Rising Threshold
Temperature (°C)

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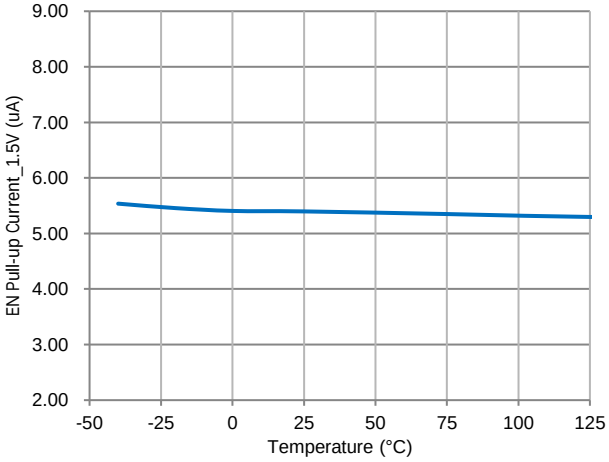
EN Pull-up Current_1.5V (uA)
Temperature (°C)

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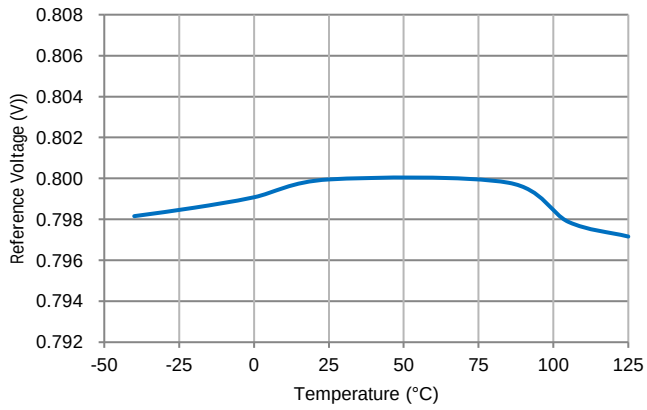
Reference Voltage (V))
Temperature (°C)

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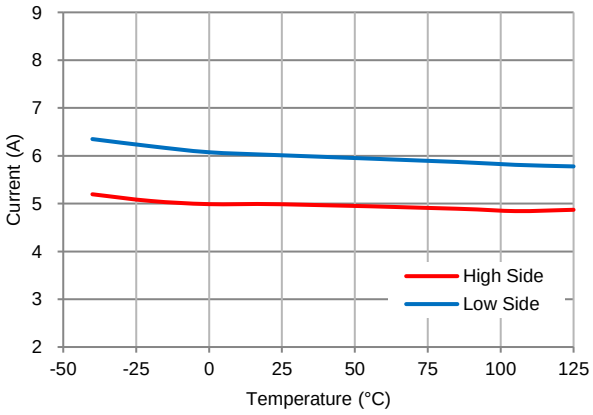
Current (A)
High Side
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Temperature (°C)

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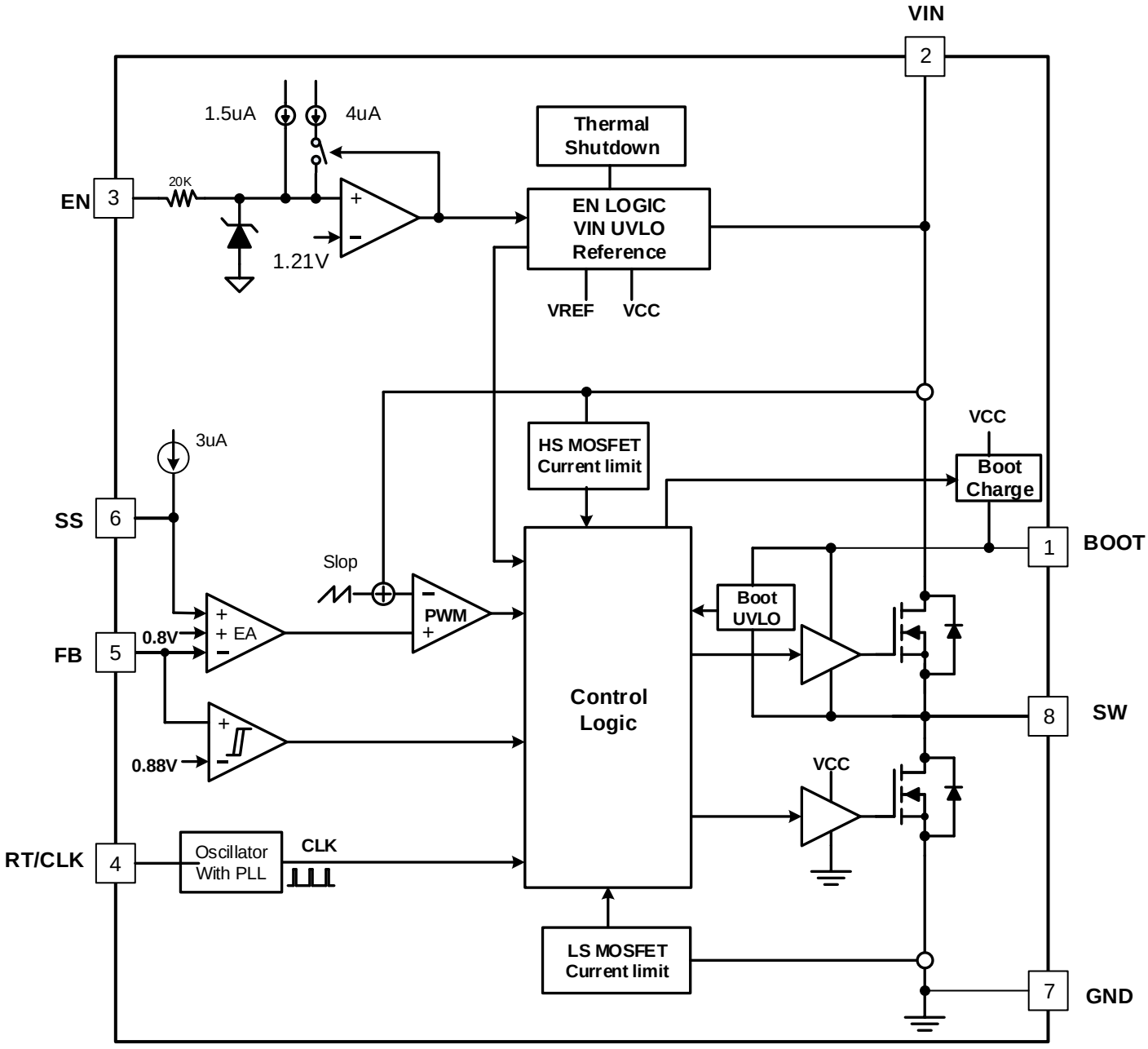

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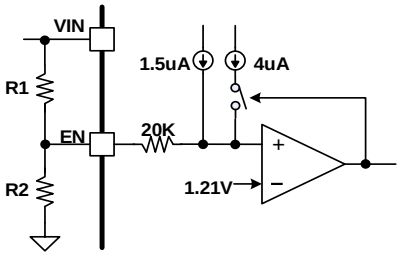

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Programmable Soft-Start

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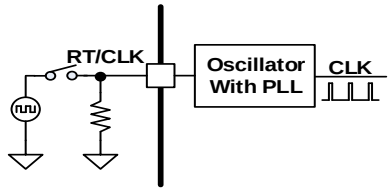

Frequency Spread Spectrum

Bootstrap Voltage Regulator and Low Drop-out Operation

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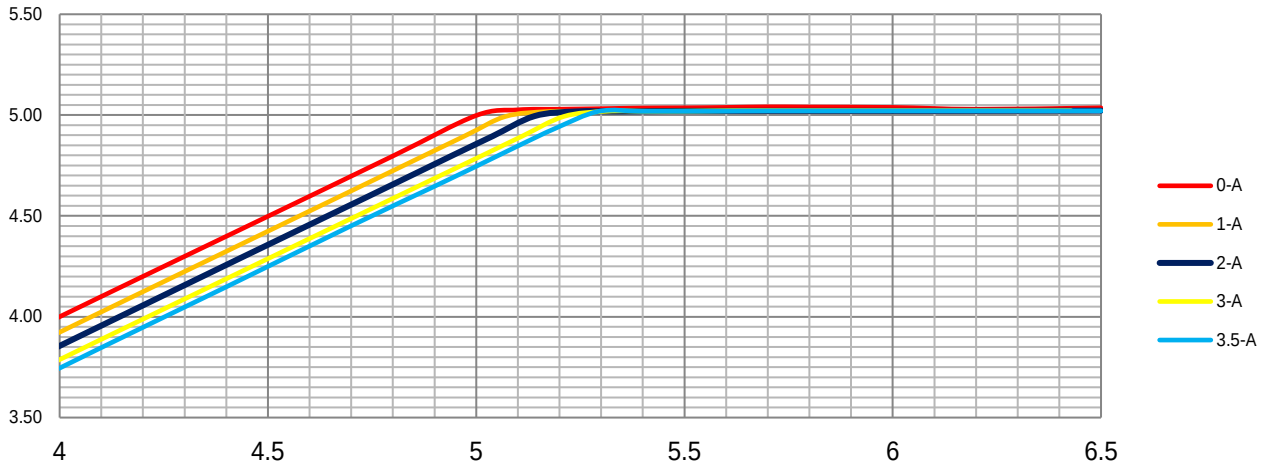

Figure 17. LDO Operation Characteristic (Vout =5V)

Over Current Limit and Hiccup Mode

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Typical Application

Figure 18. SCT2432Q Design Example, 3.3V Output with Programmable UVLO

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Inverting Power application

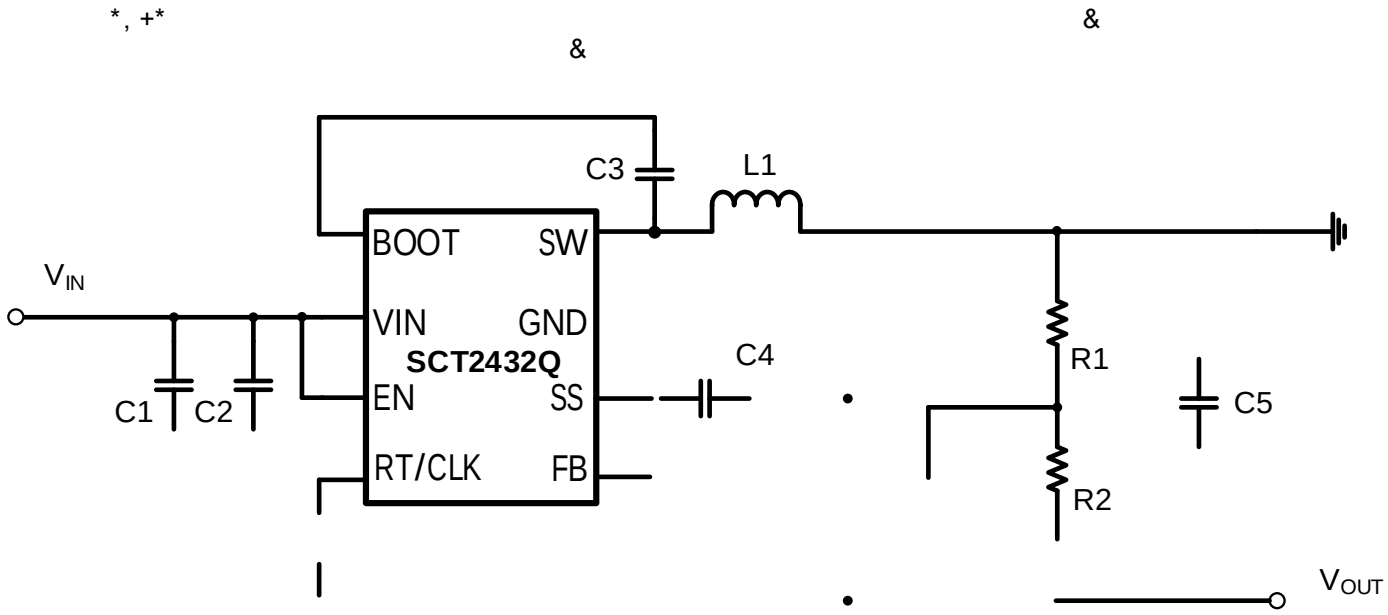
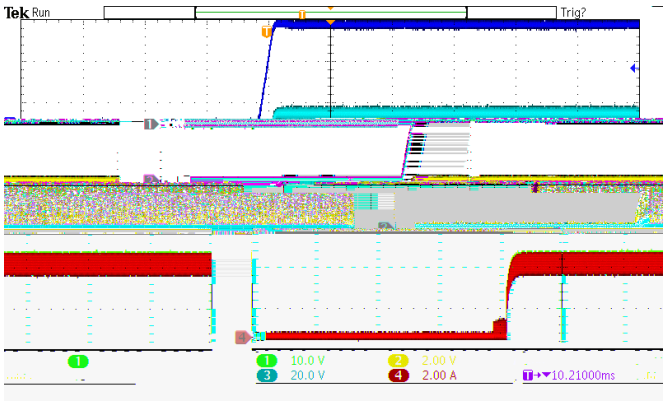


Figure 19. SCT2432Q Inverting Power Supply

Application Waveforms



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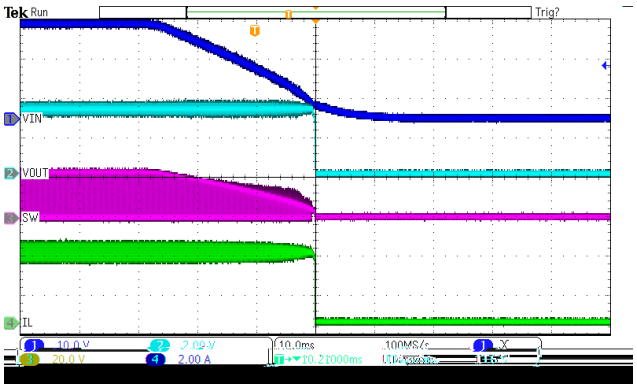

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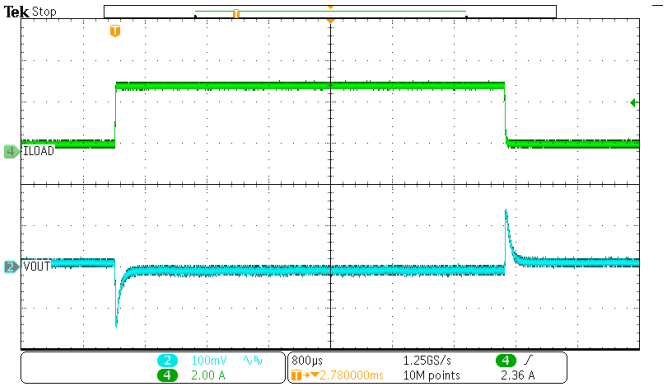

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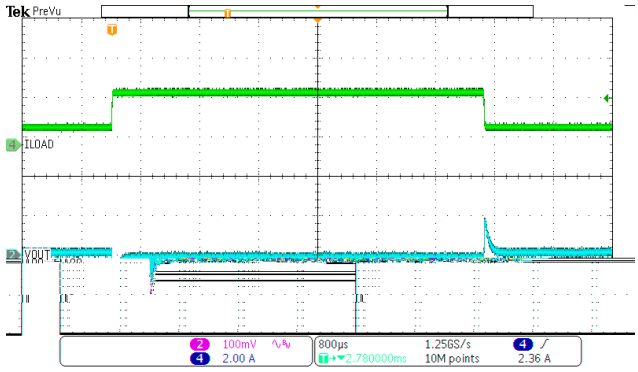

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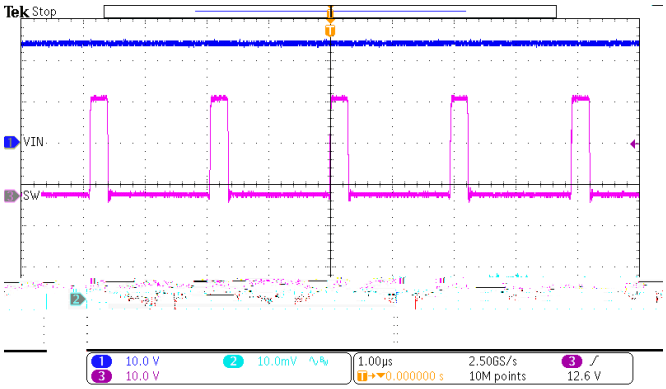

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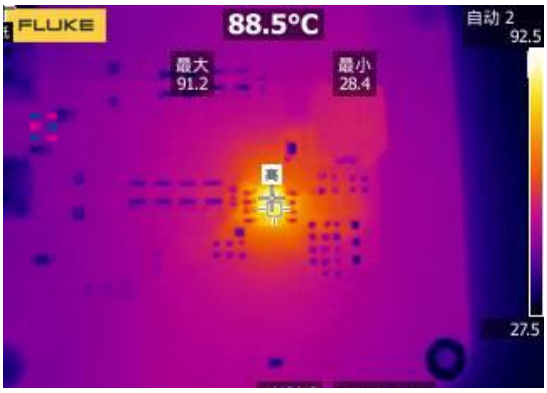

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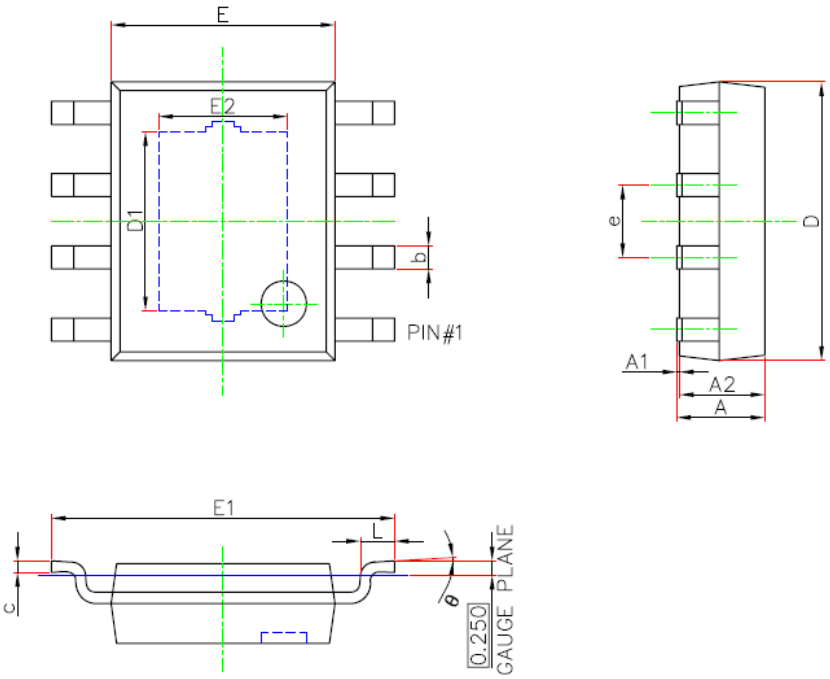

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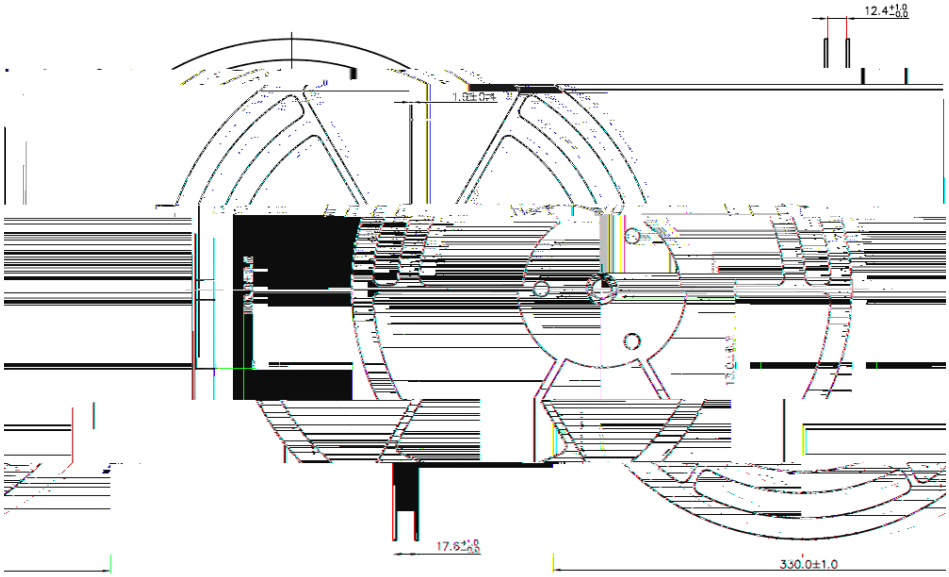

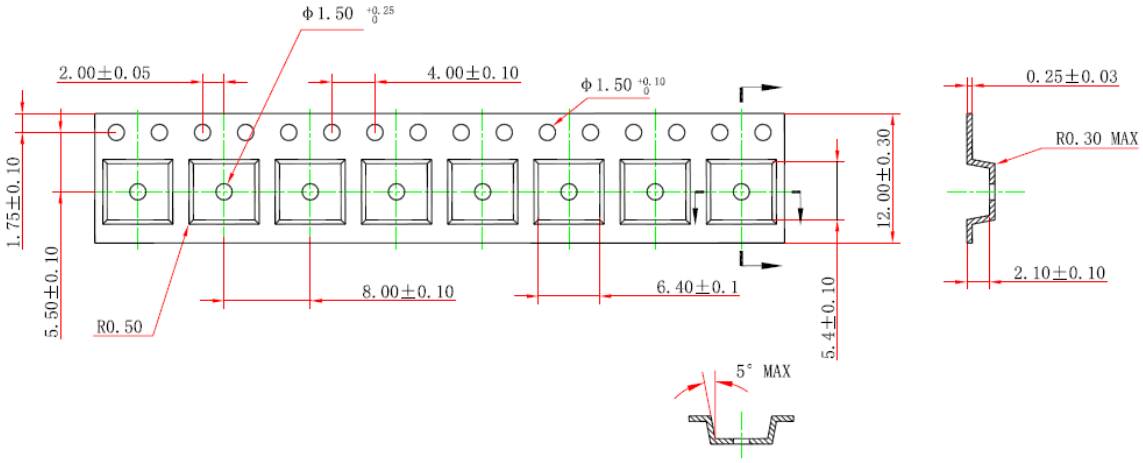

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE

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