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**3V-40V Vin, 300mA, 2.4uA I<sub>Q</sub>, Low-Dropout Regulator with PG Feature**

±

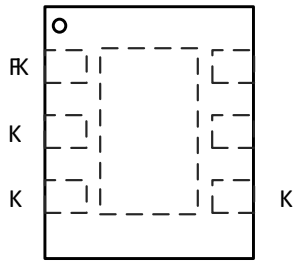
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# SCT71403Q Series

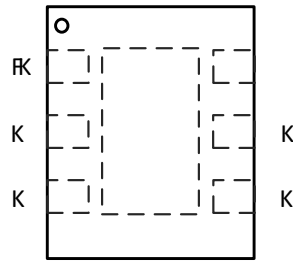
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Part Number	Output Voltage	Package	Package Marking	Transport Media, Quantity

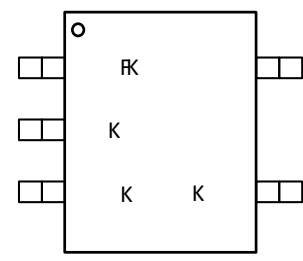
# SCT71403Q Series



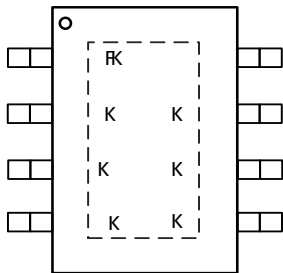
SCT71403FxxAQDVAR



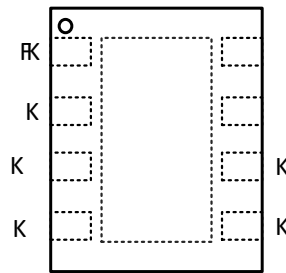
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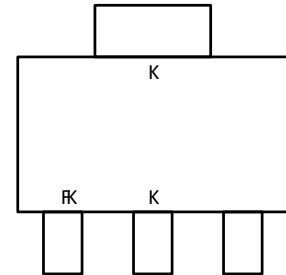
SCT71403FxxQTWDR



SCT71403FxxQMTER



SCT71403FxxQDTBR



SCT71403FxxQTXER

NAME

# SCT71403Q Series

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PARAMETER	DEFINITION	MIN	MAX	UNIT

PARAMETER	DEFINITION	MIN	MAX	UNIT

- (1)
- (2)

PARAMETER	DEFINITION	MIN	MAX	UNIT

Package Type	$R_{JA}^{(1)}$	$R_{JC}^{(2)}$	$R_{JA\_EVM}^{(3)}$	UNIT

(1)

(2)

(3)

## **SCT71403Q Series**

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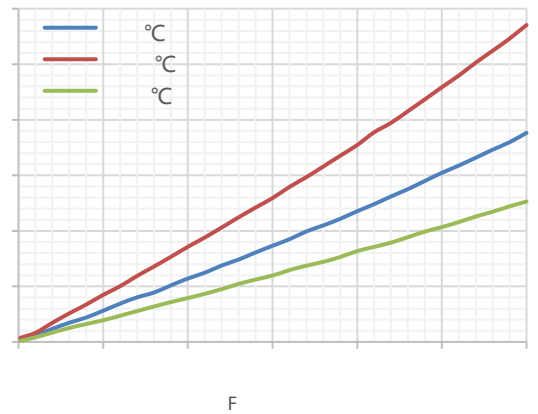
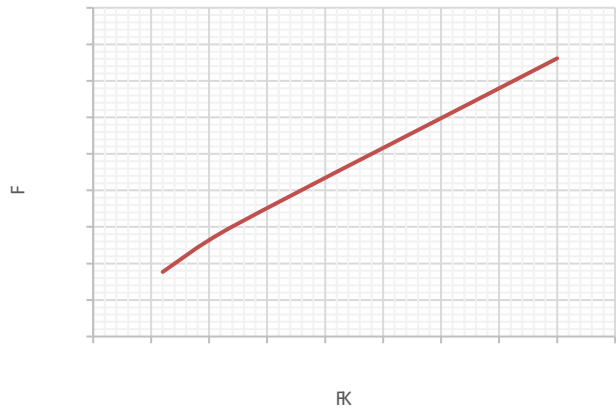
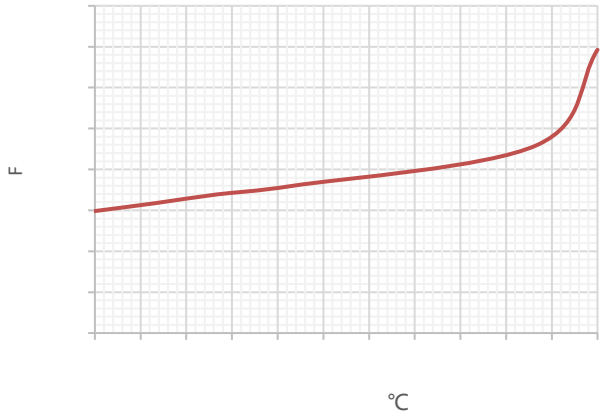
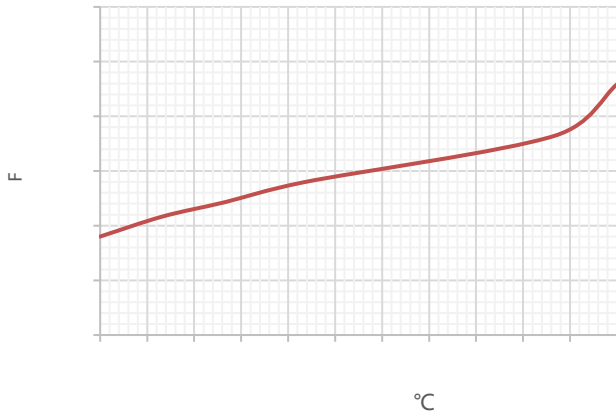
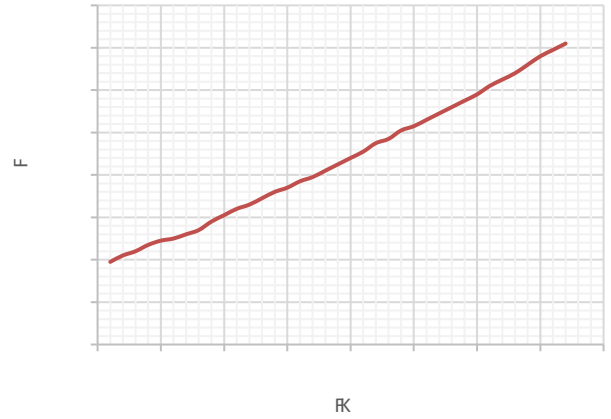
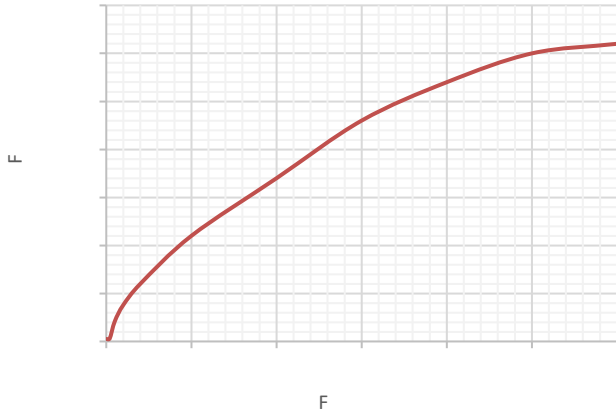
# SCT71403Q Series

SYMBOL	PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
<b>Thermal Protection</b>						

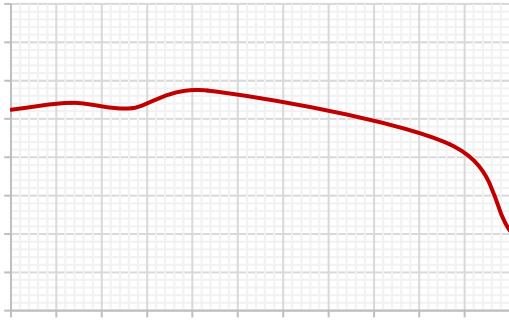
(1)

(2)

# SCT71403Q Series



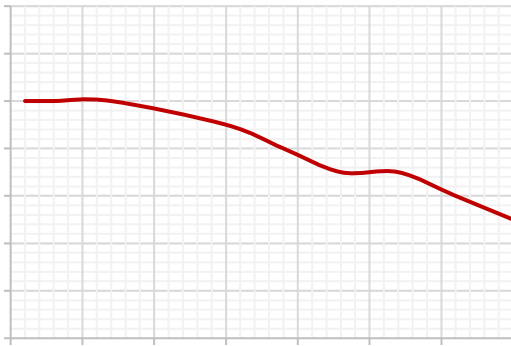




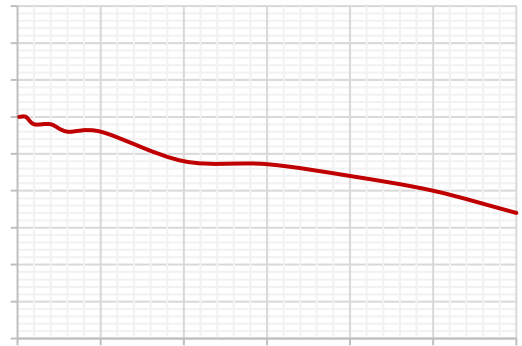
°C



°C



RK



F



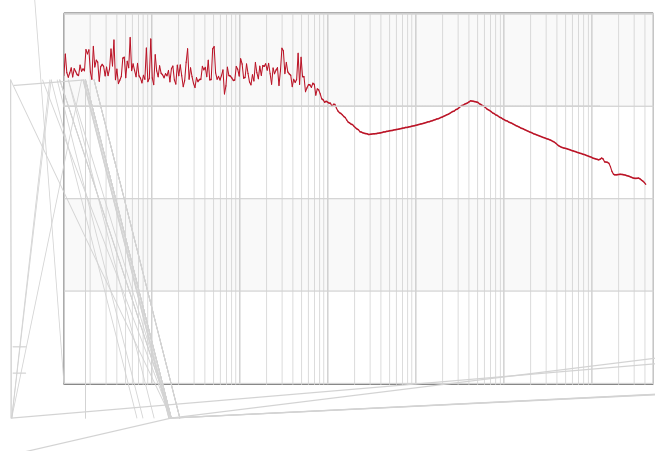
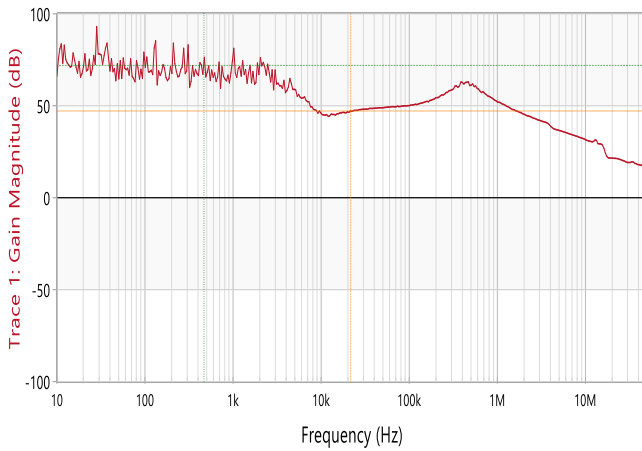
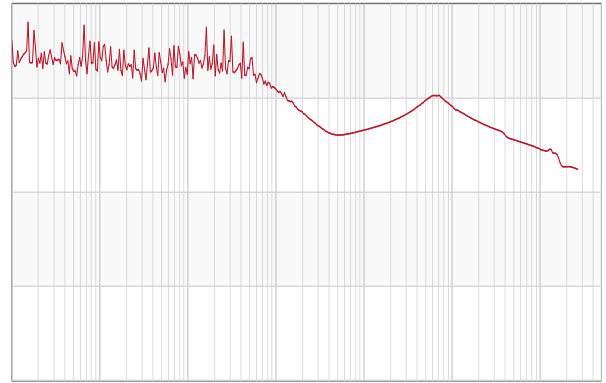
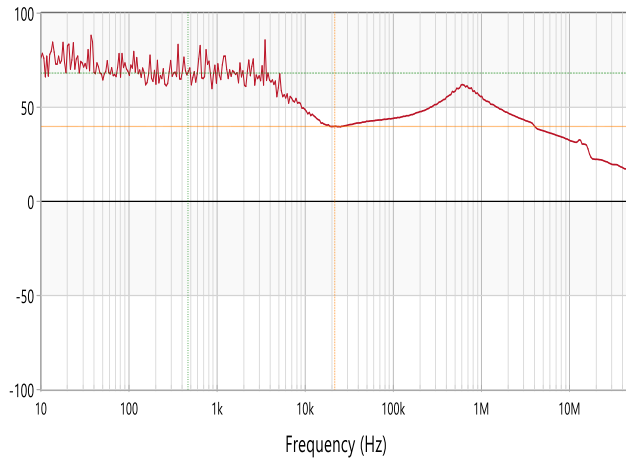
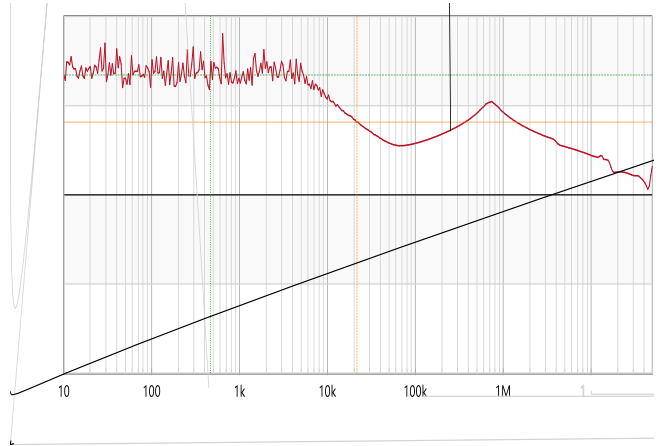
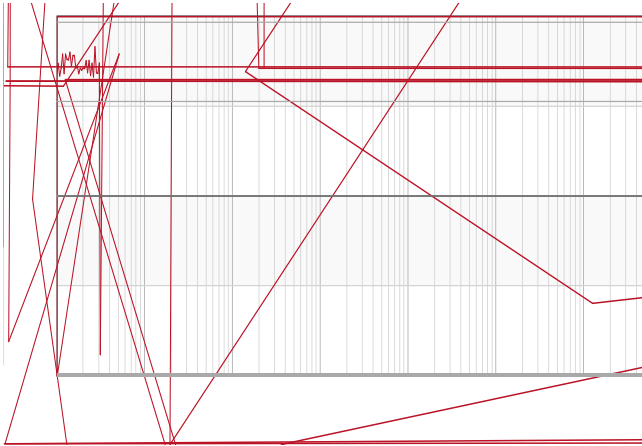
°C

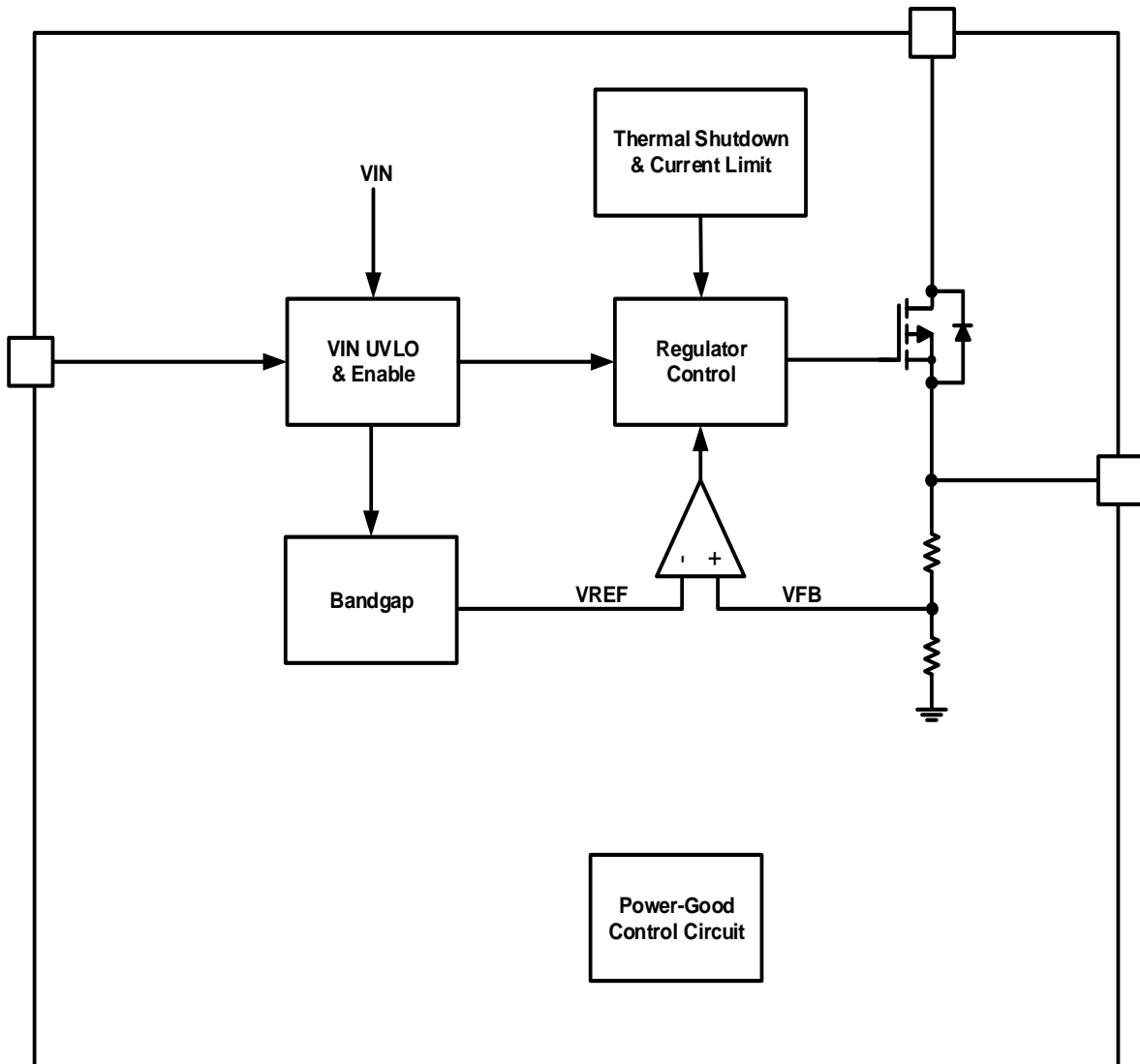


F

°C

# SCT71403Q Series



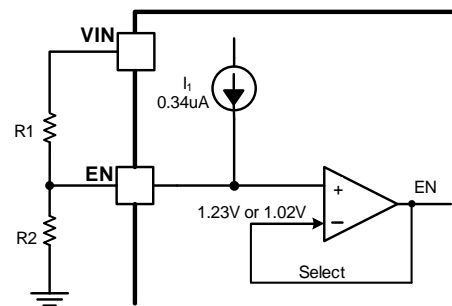


# SCT71403Q Series

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## Overview

## Enable and Under Voltage Lockout Threshold

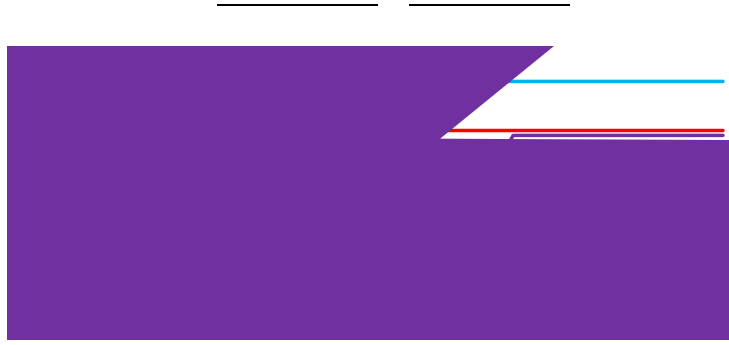


## Regulated Output Voltage



# SCT71403Q Series

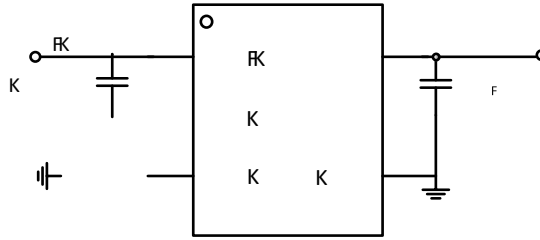
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# SCT71403Q Series

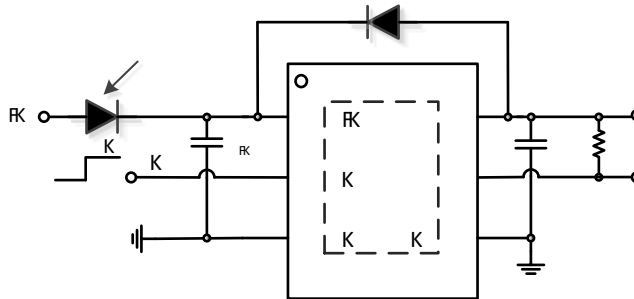
Typical application 1:



### Design Parameters

Design Parameters	Example Value

Typical application 2:



### Design Parameters

Design Parameters	Example Value



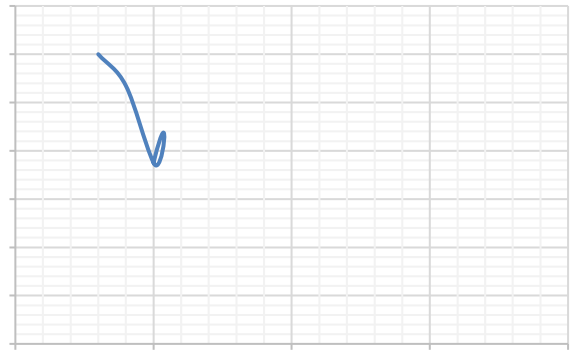
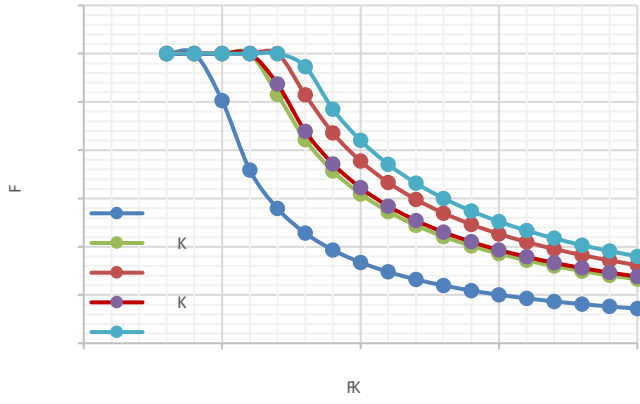




## Power Dissipation and Thermal Performance

# SCT71403Q Series

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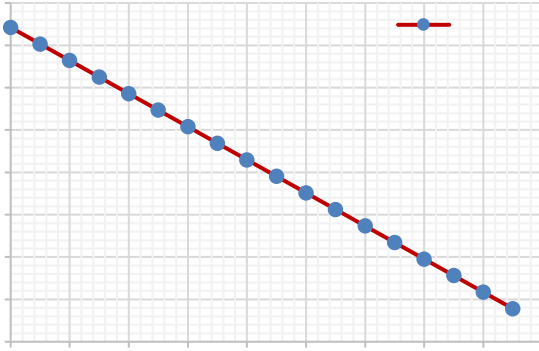
°C

°C

°C

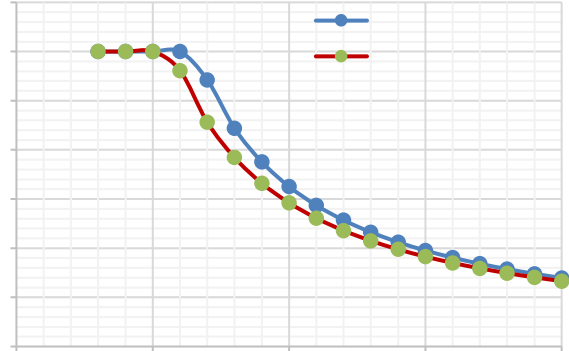
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# SCT71403Q Series



°C

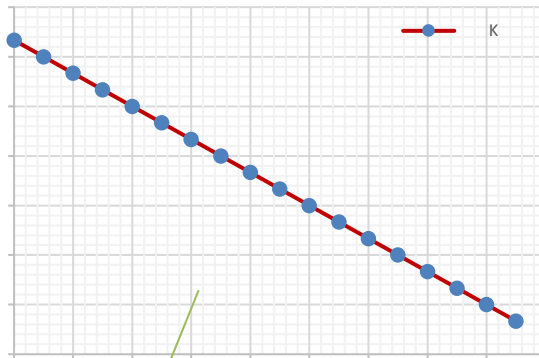
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L

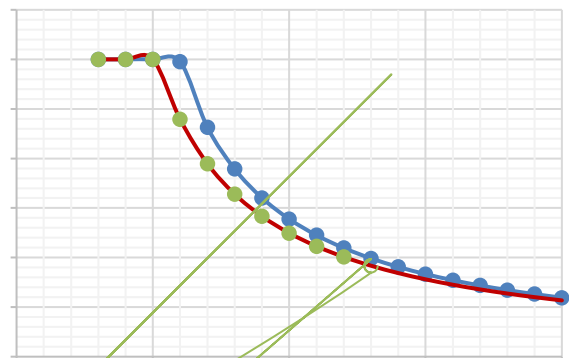
RK

°C



°C

°C



°C

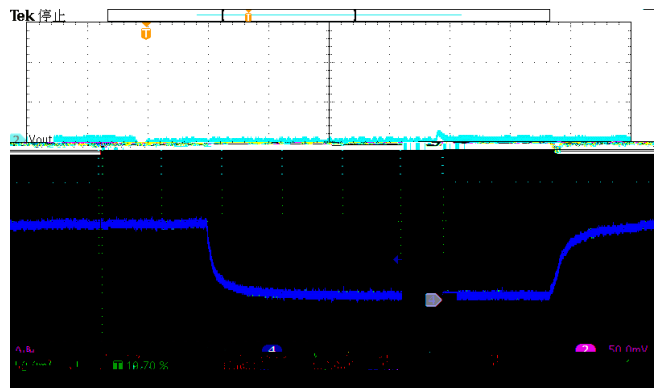
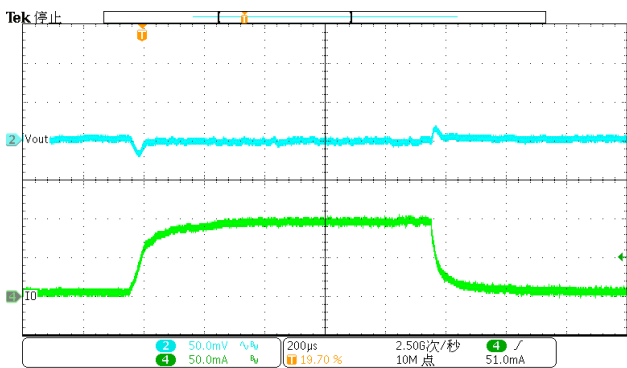
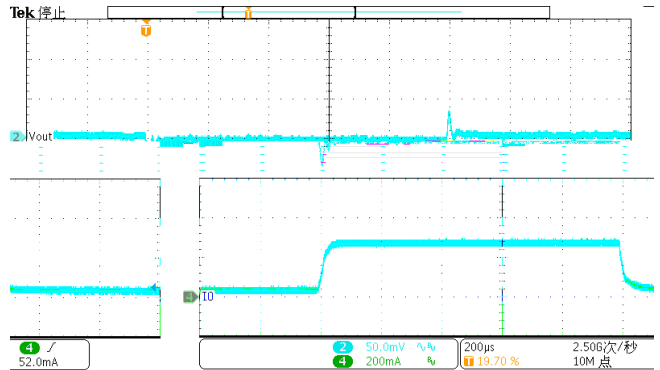
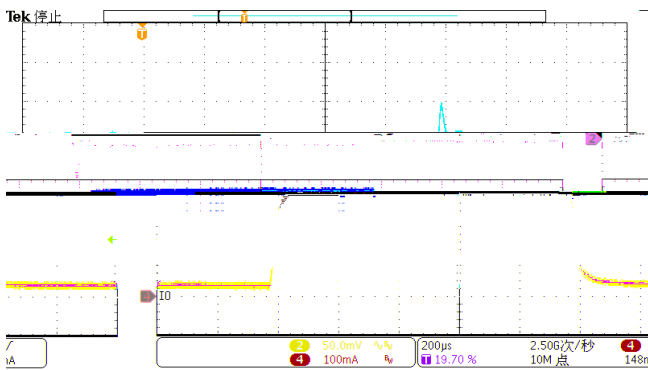
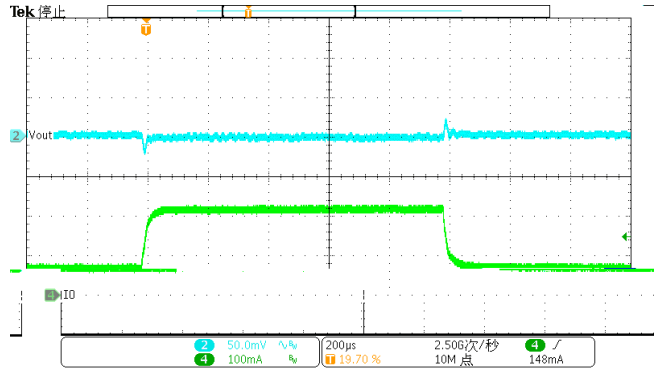
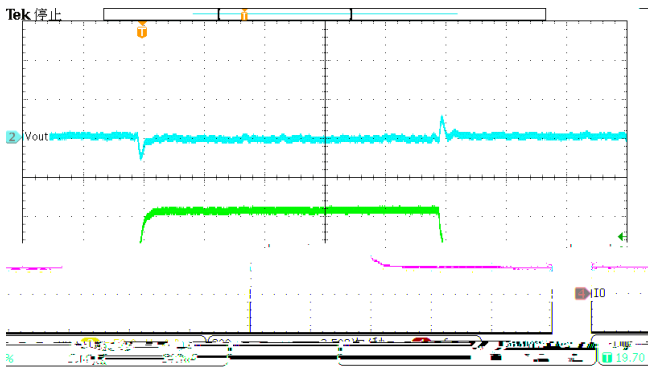
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# SCT71403Q Series

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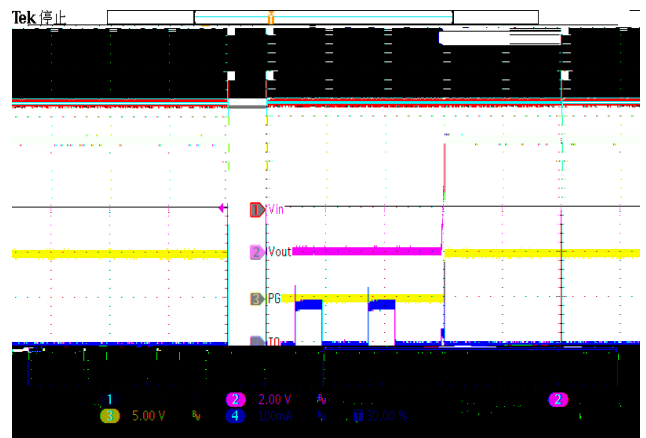
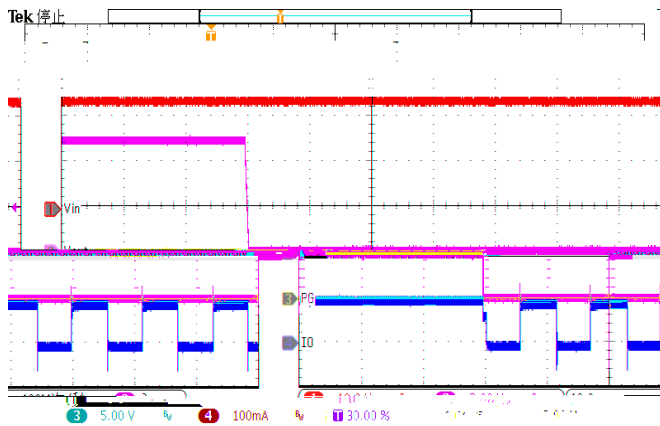
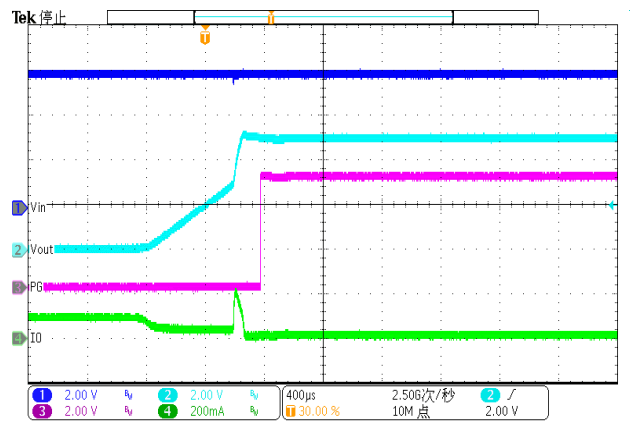
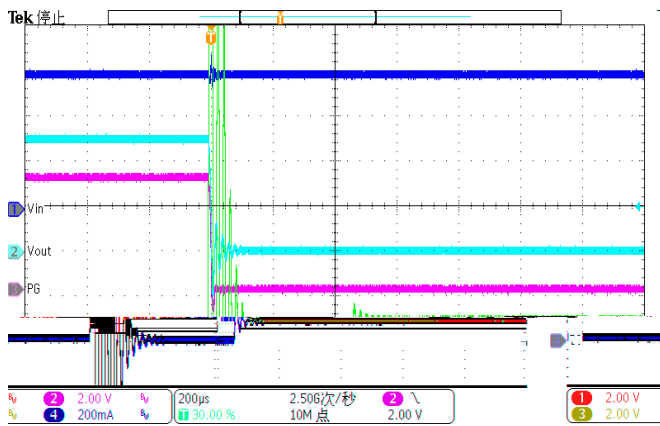
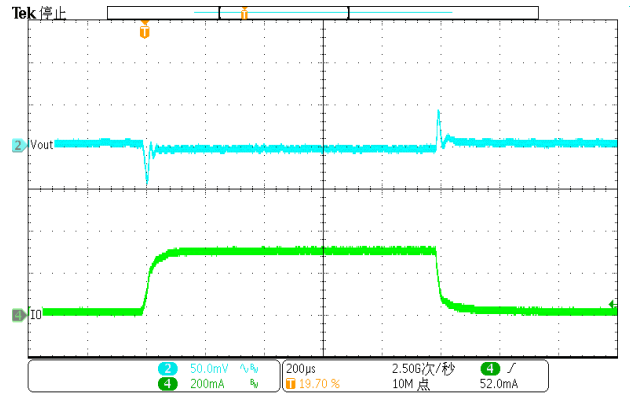
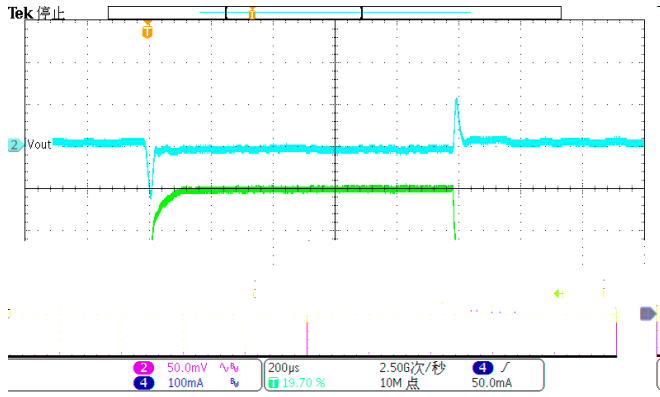
## Application Waveforms

## Application Waveforms(Continued)



# SCT71403Q Series

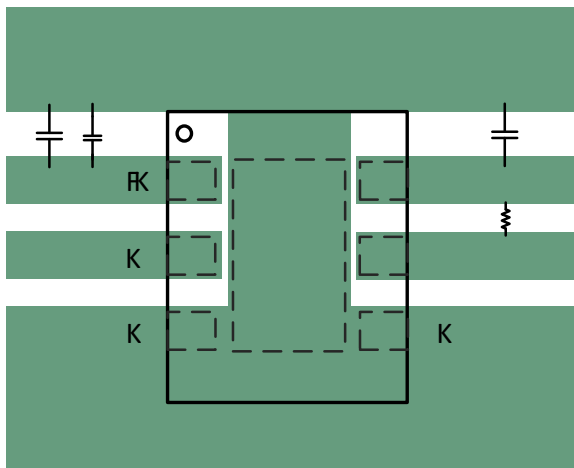
## Application Waveforms(Continued)



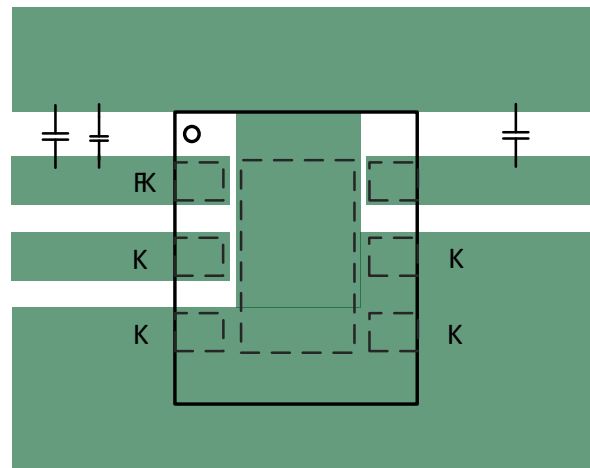


## Layout Guideline

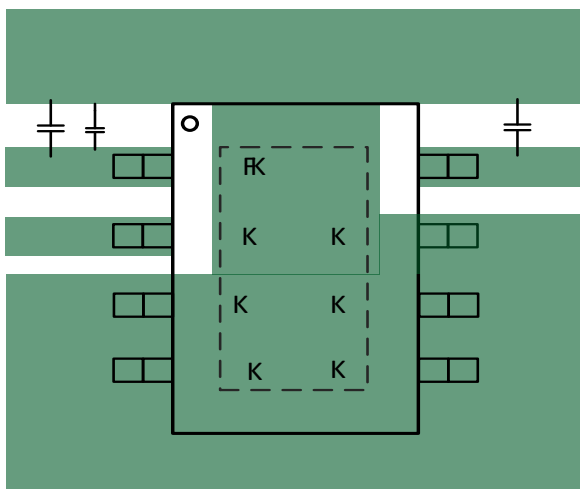
- 1.
- 2.
- 3.
- 4.
- 5.



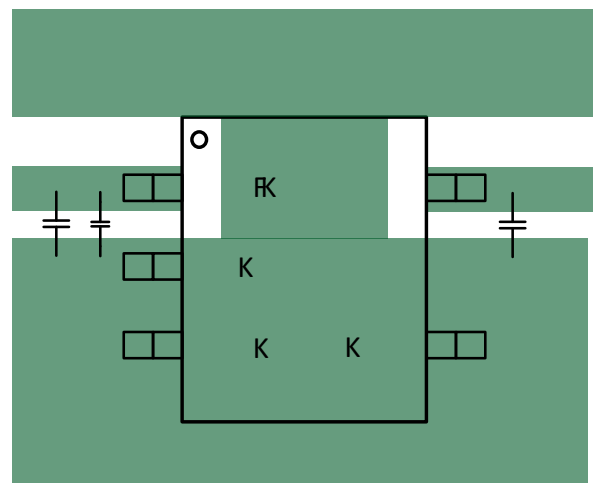
SCT71403FxxAQDVAR



SCT71403FxxQDVAR



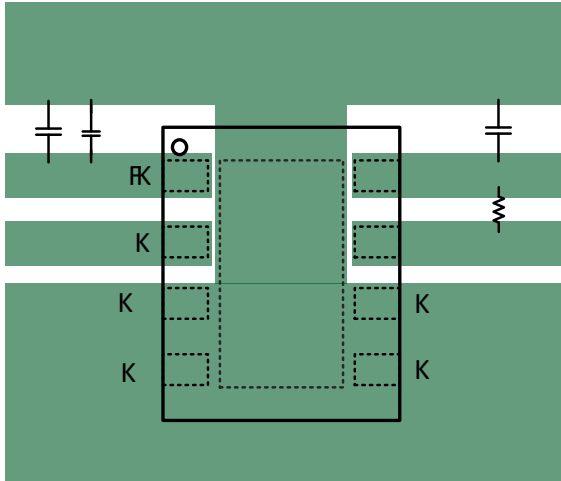
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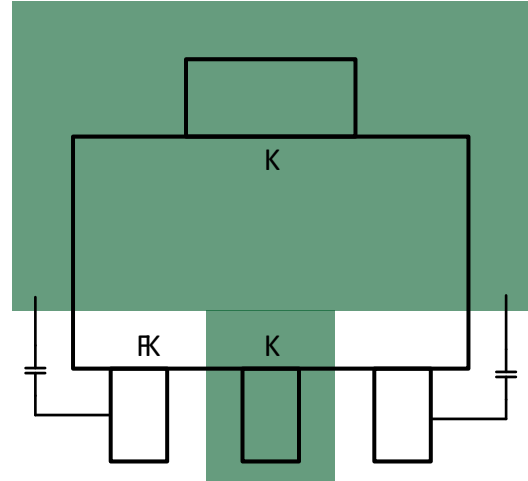
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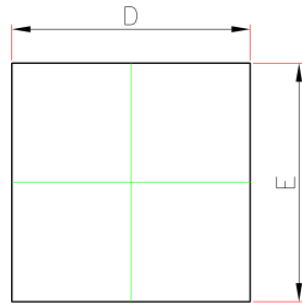
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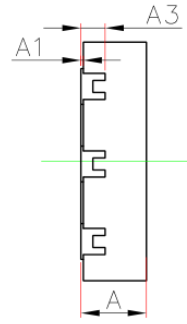
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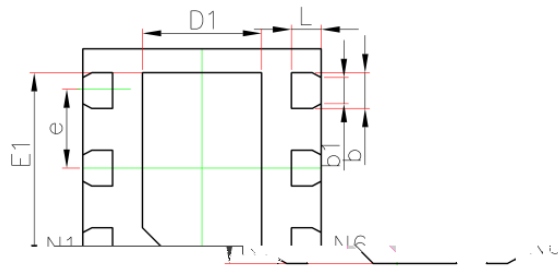
SCT71403FxxQTXER



TOP VIEW



SIDE VIEW

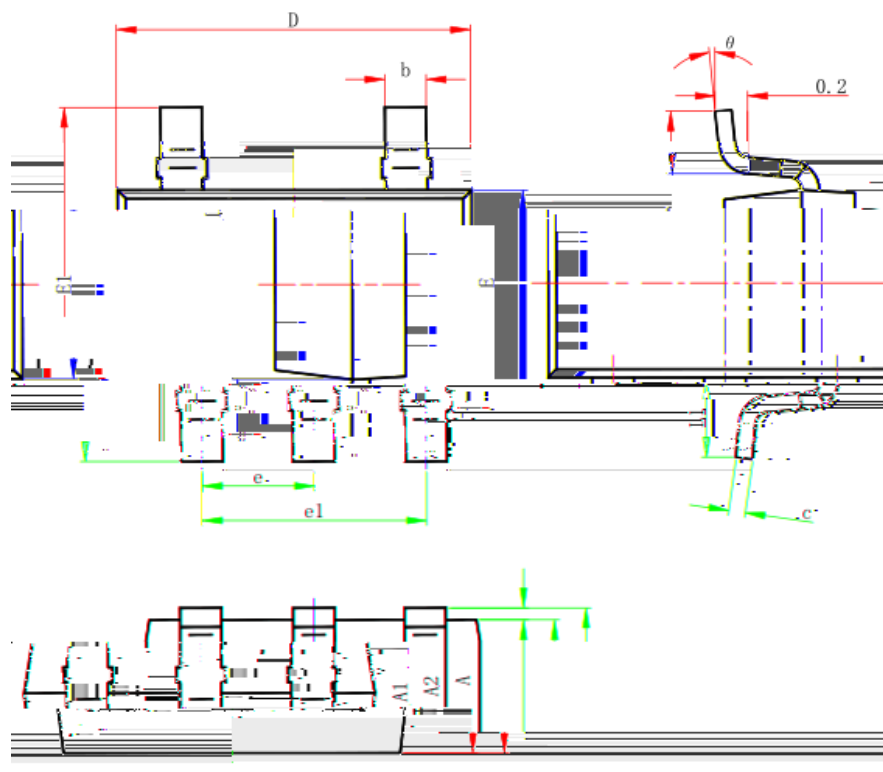


BOTTOM VIEW


**NOTE:**

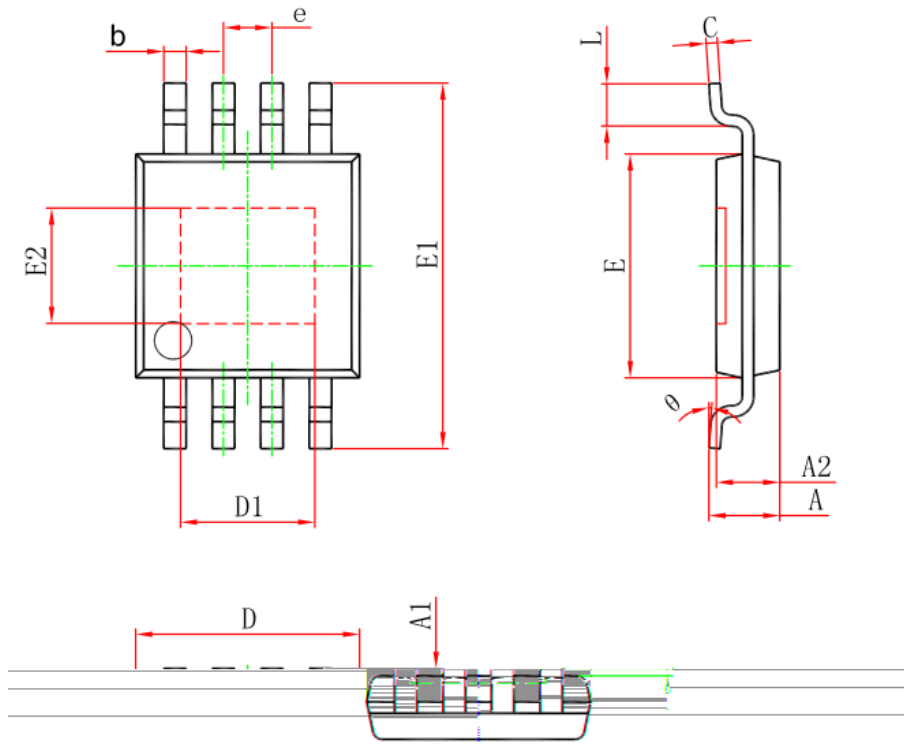
- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

# SCT71403Q Series




**NOTE:**

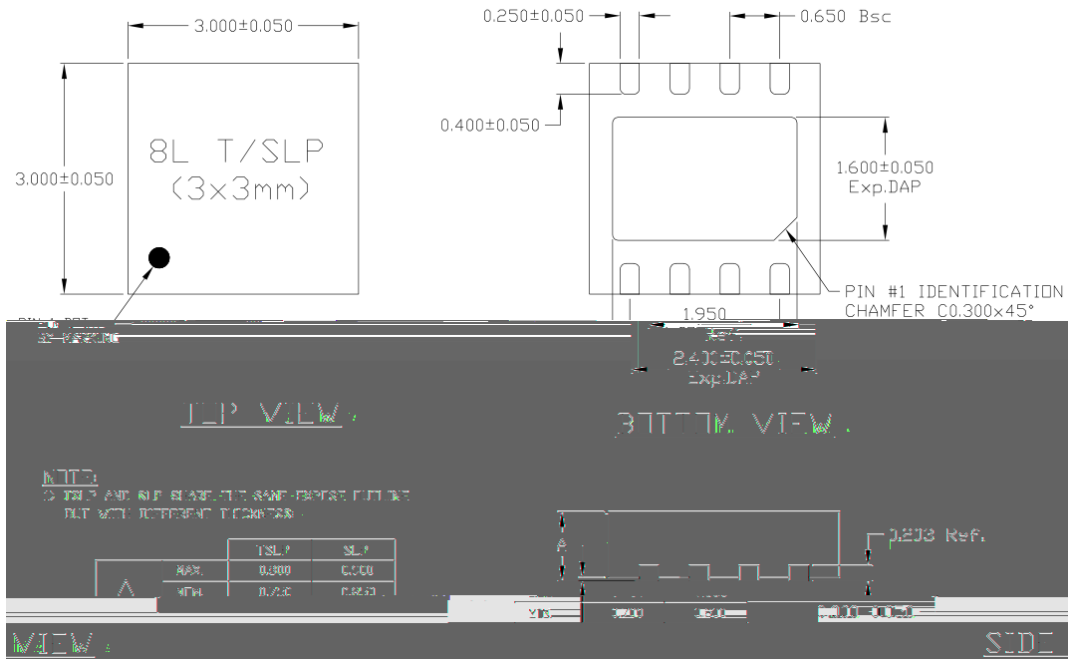
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**NOTE:**

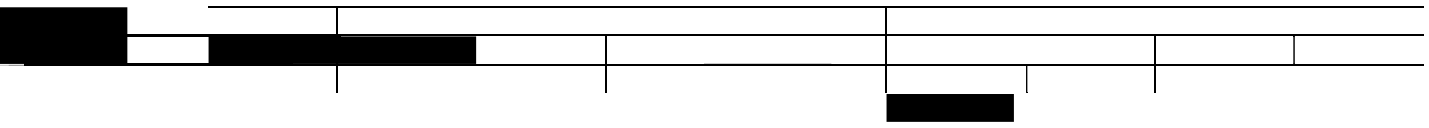
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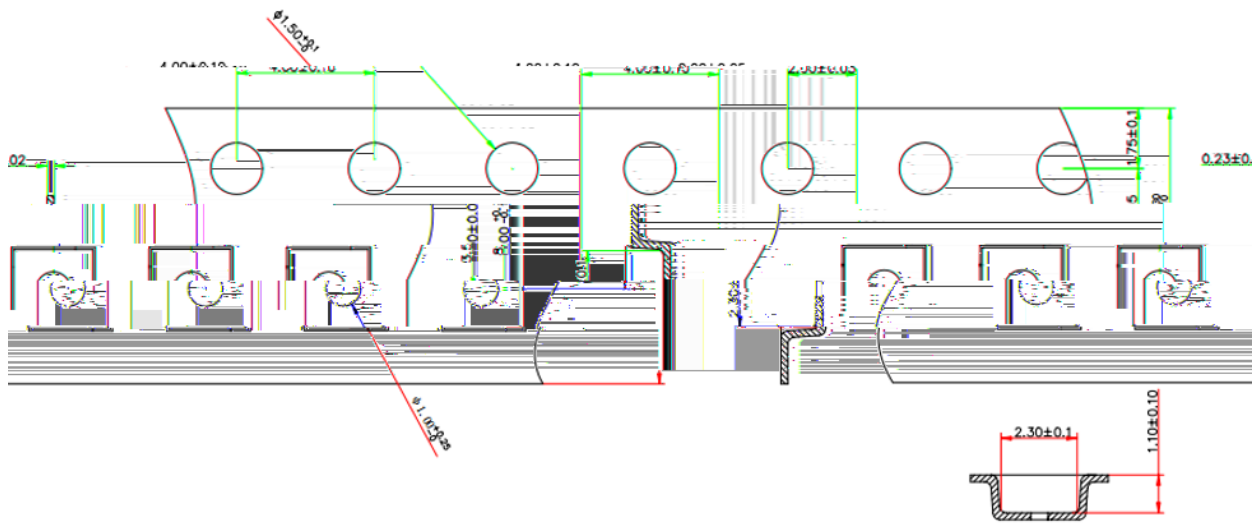
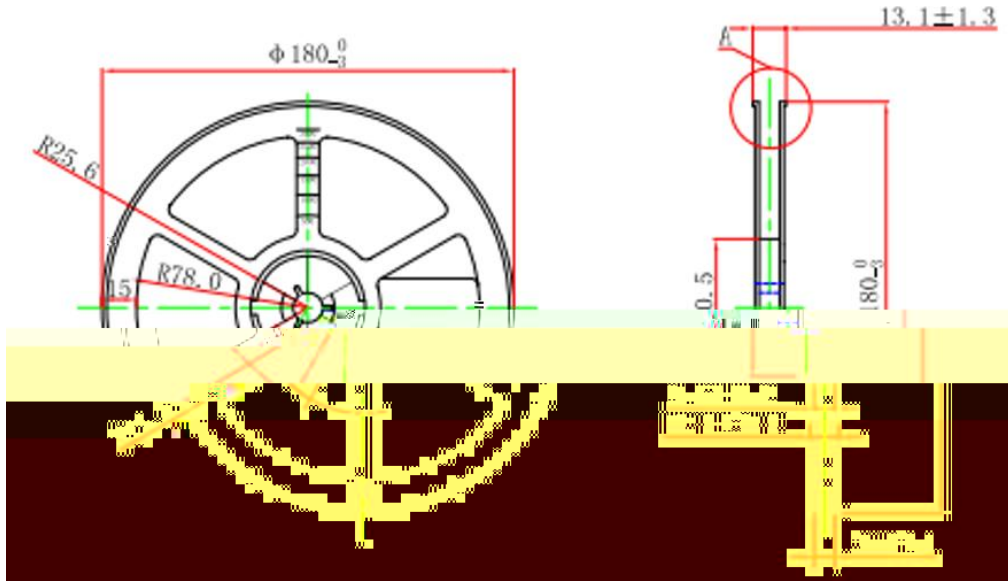


**NOTE:**

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.



# SCT71403Q Series

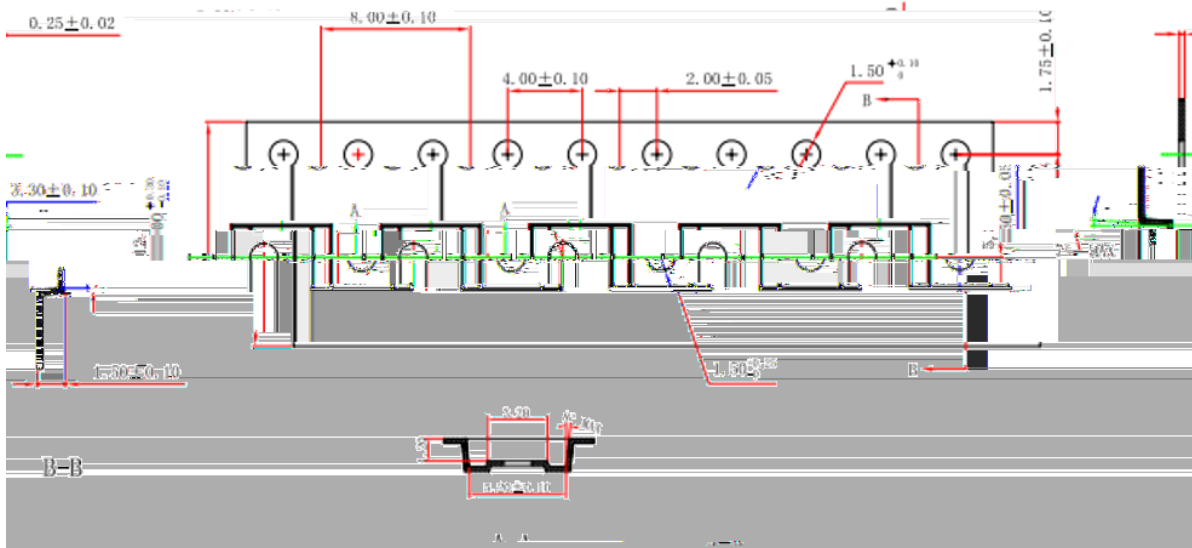
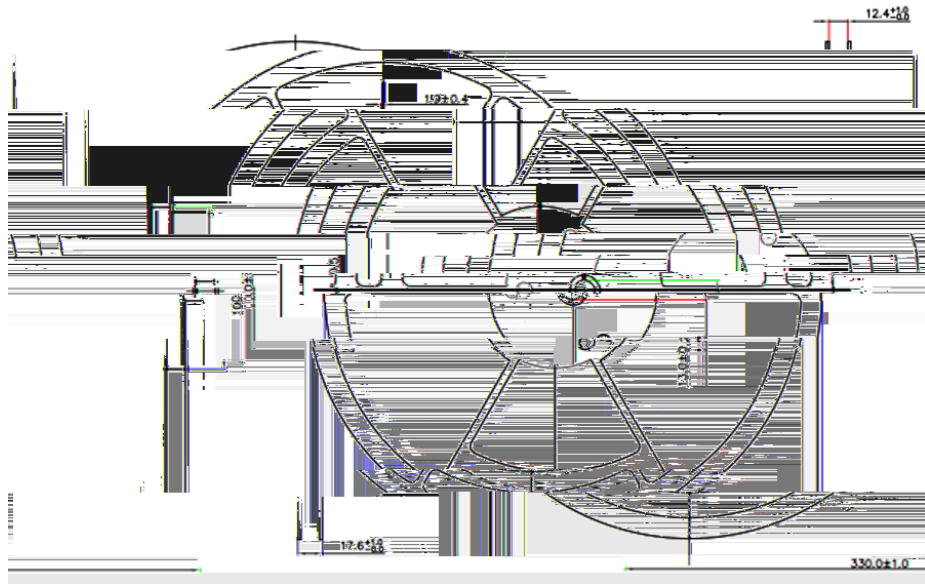



NOTICE:



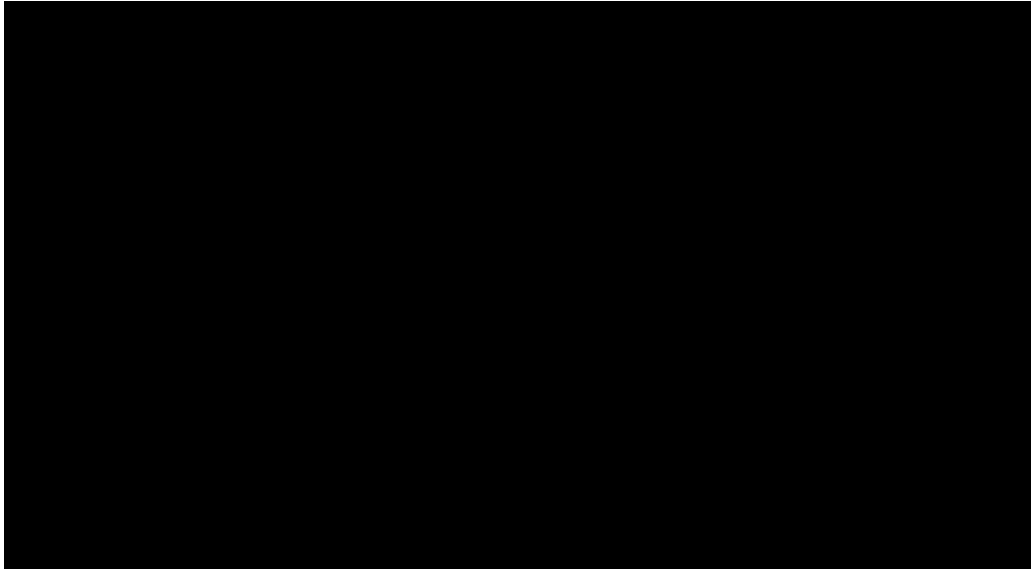
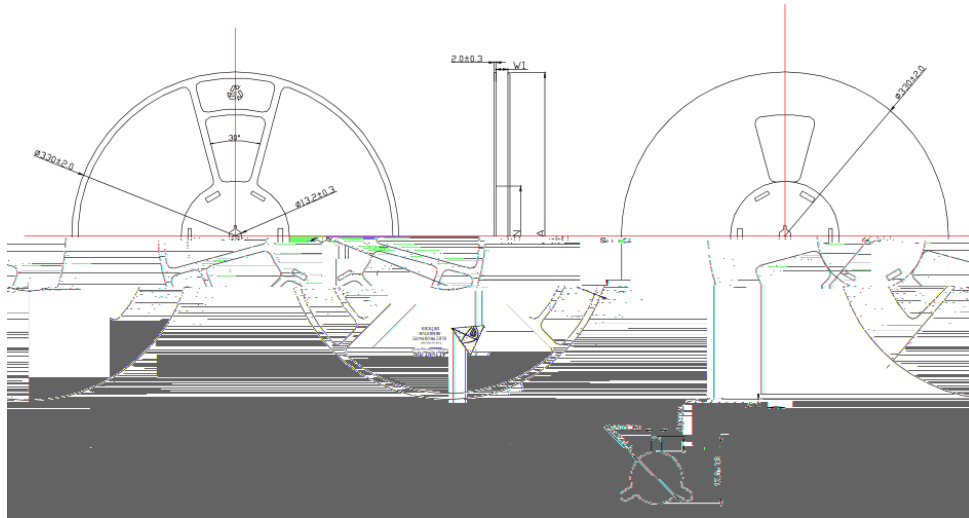


# SCT71403Q Series

NOTICE:

# SCT71403Q Series

**NOTICE:**

# SCT71403Q Series

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NOTICE: