

R8C/3JT Group OCVREF characteristics

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Prepared on Jun. 30, 2010

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I_{CC} VS f(XIN) **(High-speed clock mode)**

Prepared on Jun. 30,

R8C/3JT Group

V_{CC}=5V

T_{opr}=25degrees C

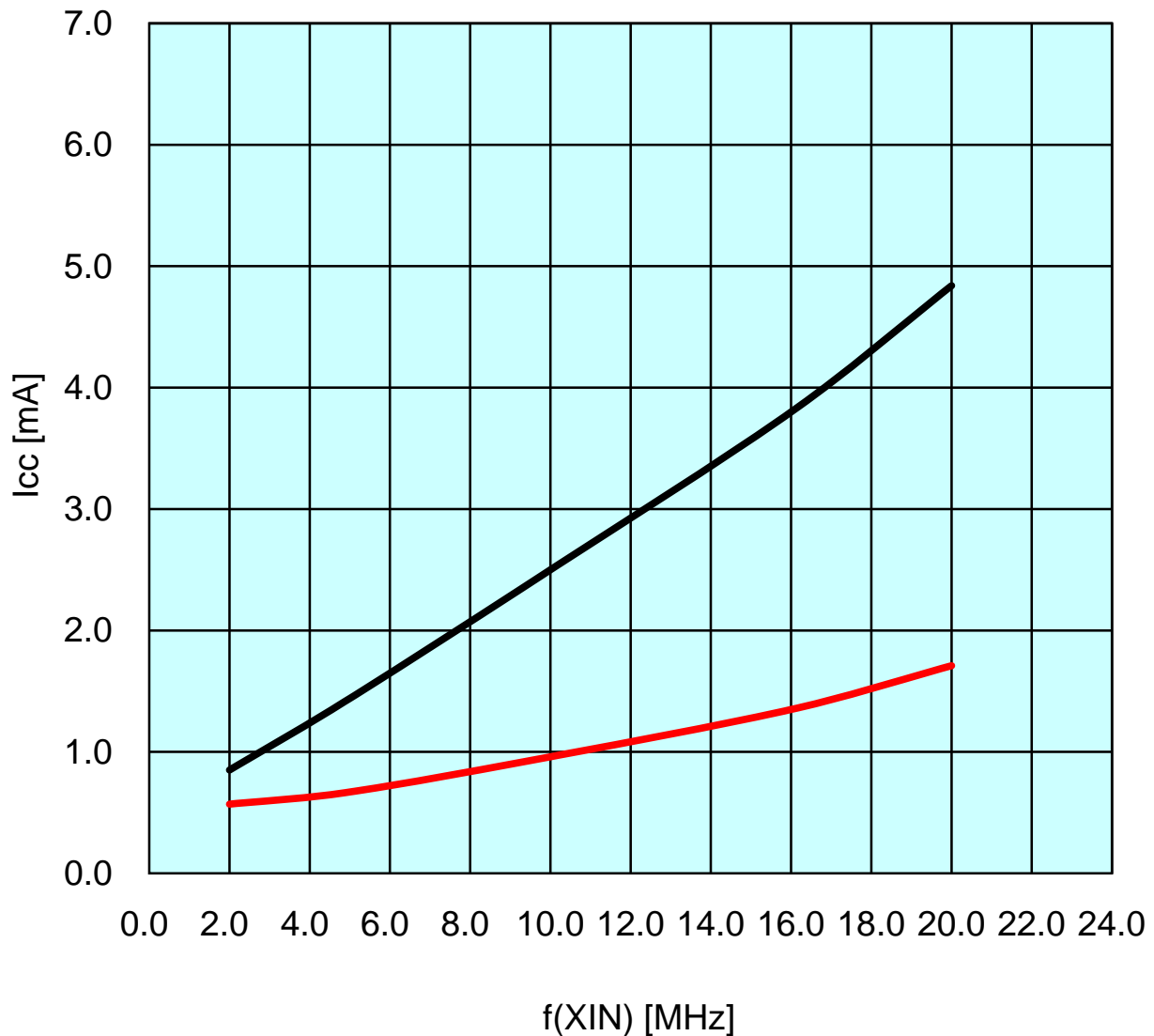
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— No division

— Divide-by-8



The mentioned value is only for your reference. The value is for the arbitrary samples and does not guarantee the product's characteristics.

I_{CC} VS f(XIN) (High-speed clock mode)

Prepared on Jun. 30,

R8C/3JT Group

V_{CC}=5V

T_{opr}=85degrees C

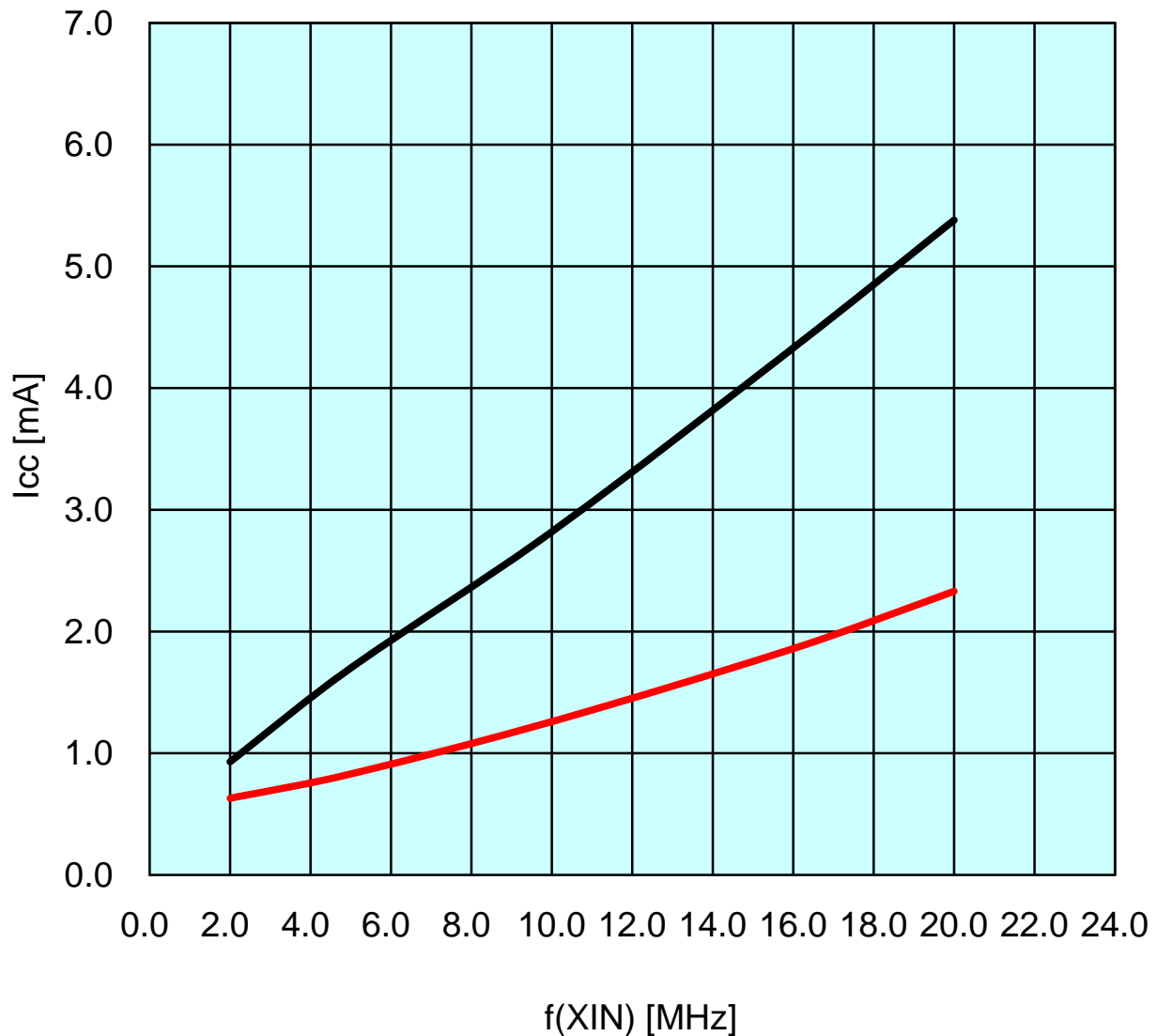
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— No division

— Divide-by-8



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I_{CC} VS f(XIN) **(High-speed clock mode)**

Prepared on Jun. 30,

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V_{CC}=5V

T_{opr}=-40degrees C

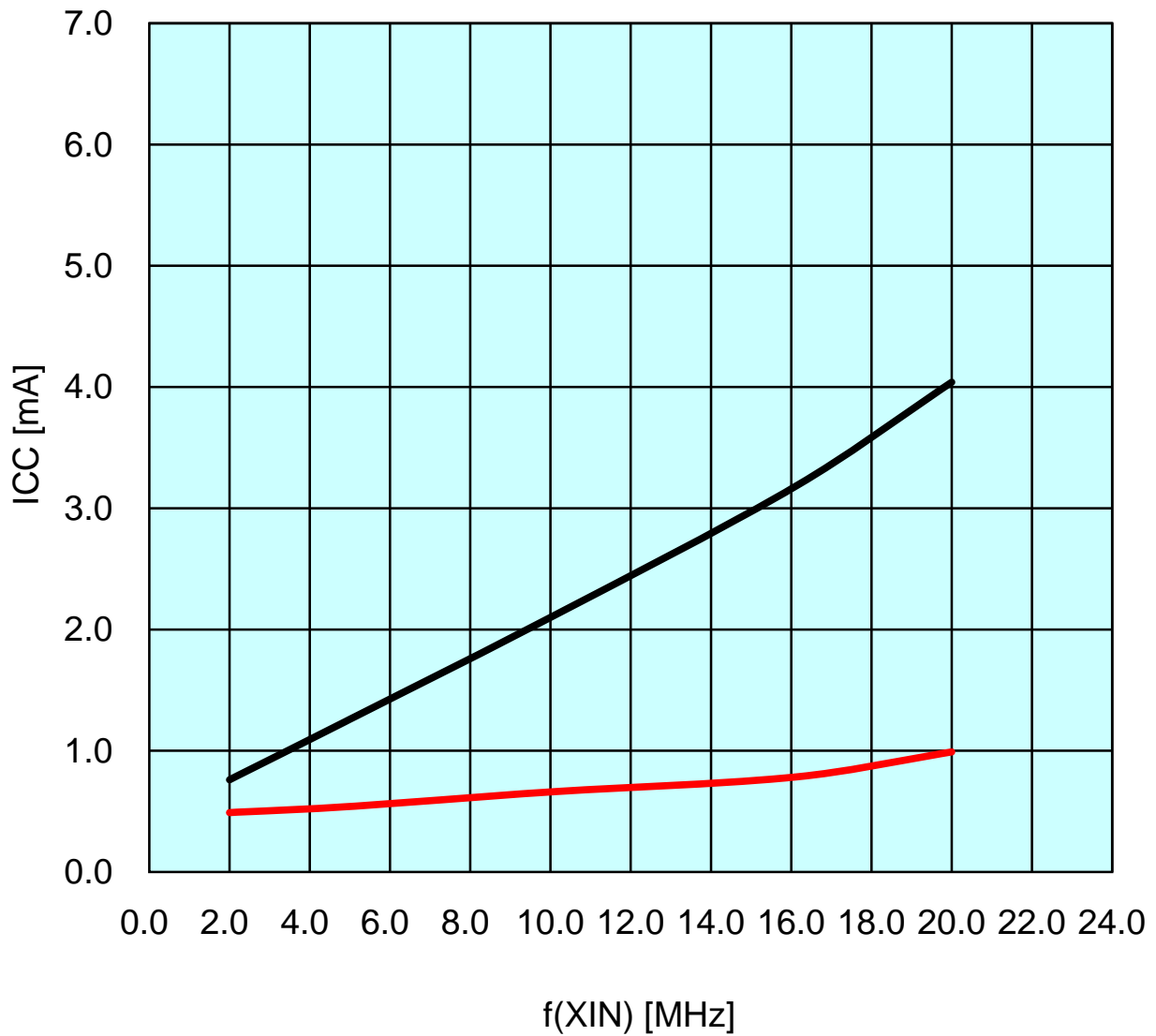
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— No division

— Divide-by-8



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I_{CC} VS f(XIN) (High-speed clock mode)

Prepared on Jun. 30,

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V_{CC}=3V

T_{opr}=25degrees C

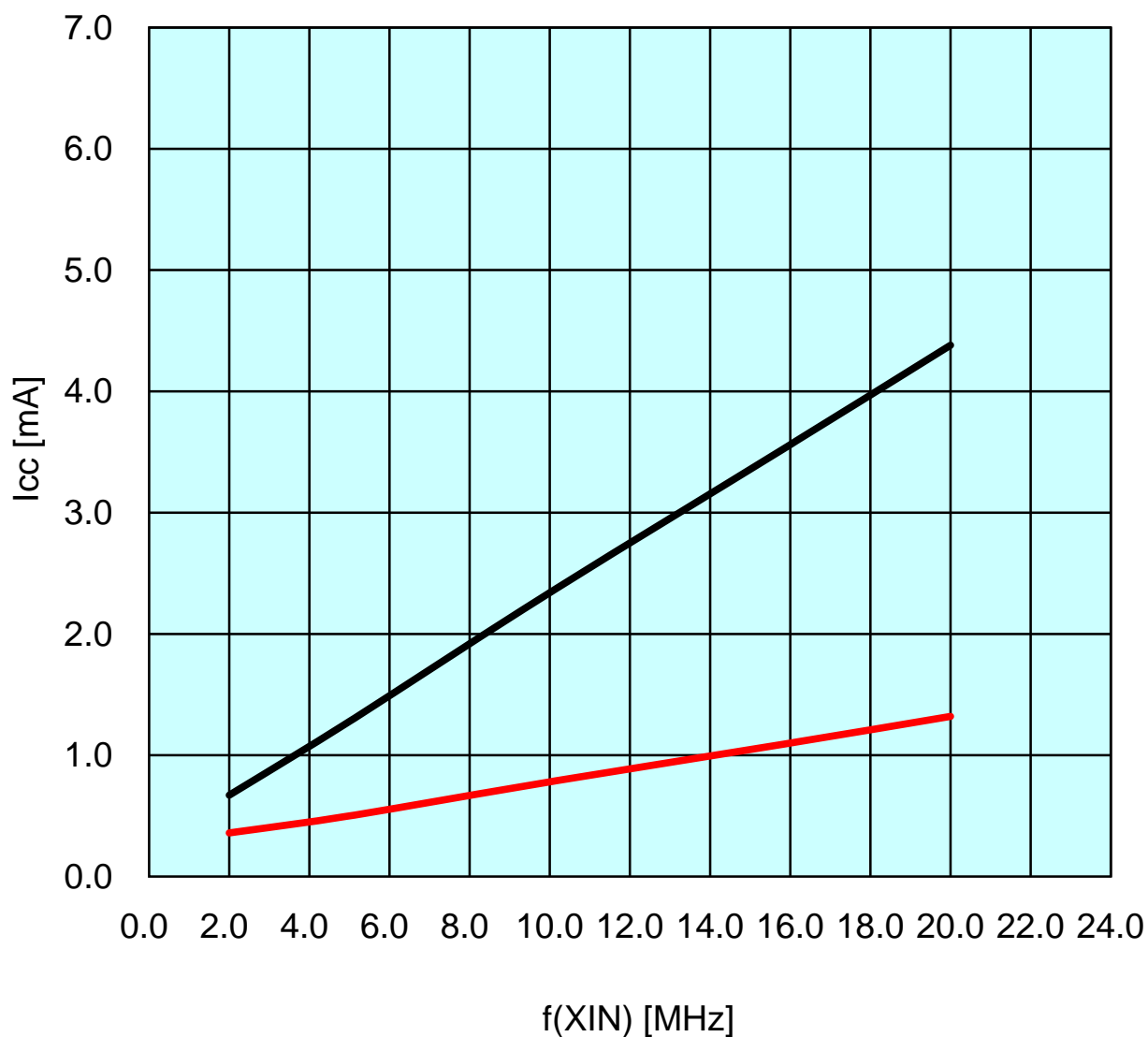
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— No division

— Divide-by-8



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I_{CC} VS f(XIN) **(High-speed clock mode)**

Prepared on Jun. 30,

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V_{CC}=3V

T_{opr}=85degrees C

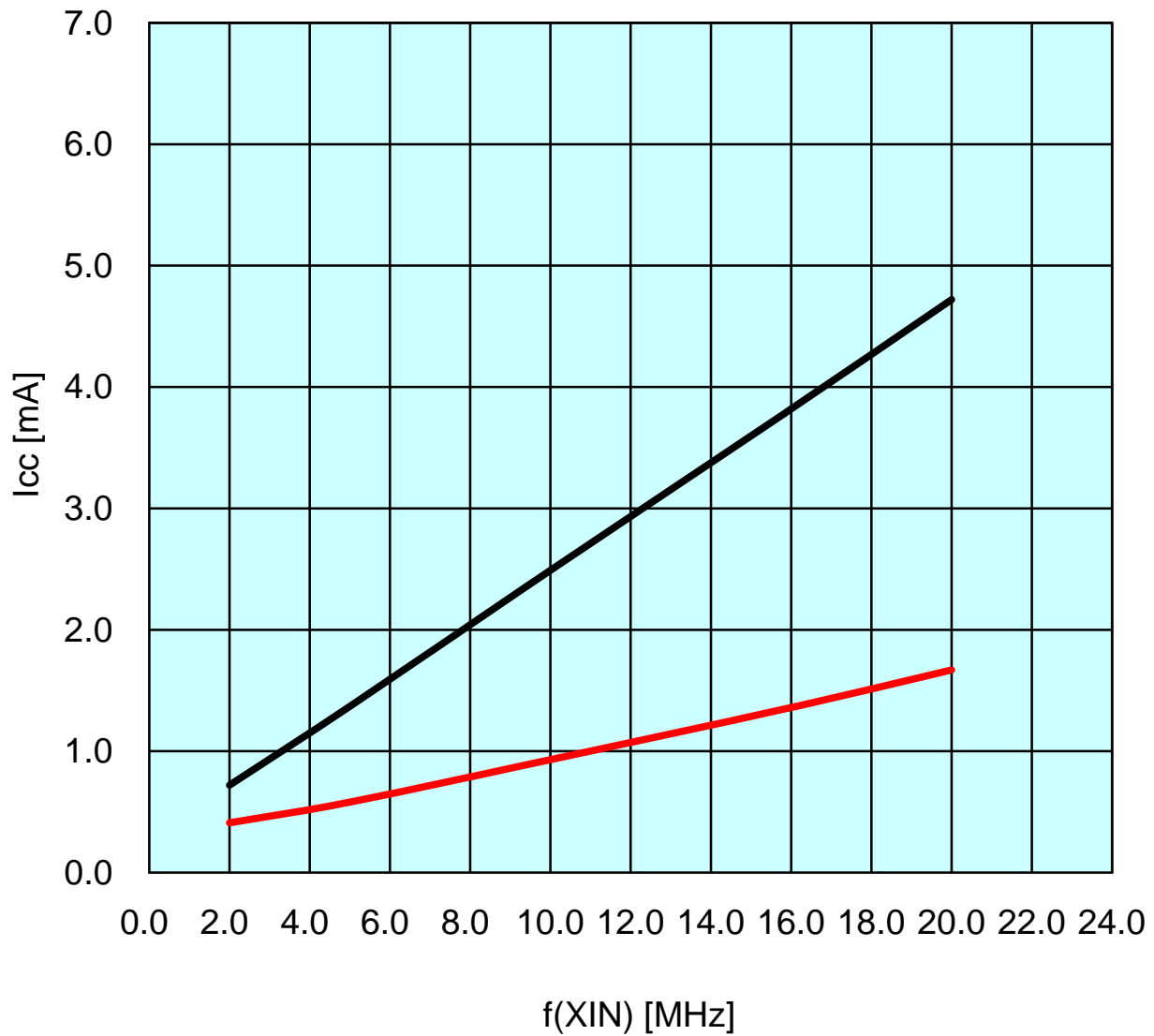
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— No division

— Divide-by-8



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I_{CC} VS f(XIN) **(High-speed clock mode)**

Prepared on Jun. 30,

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V_{CC}=3V

T_{opr}=-40degrees C

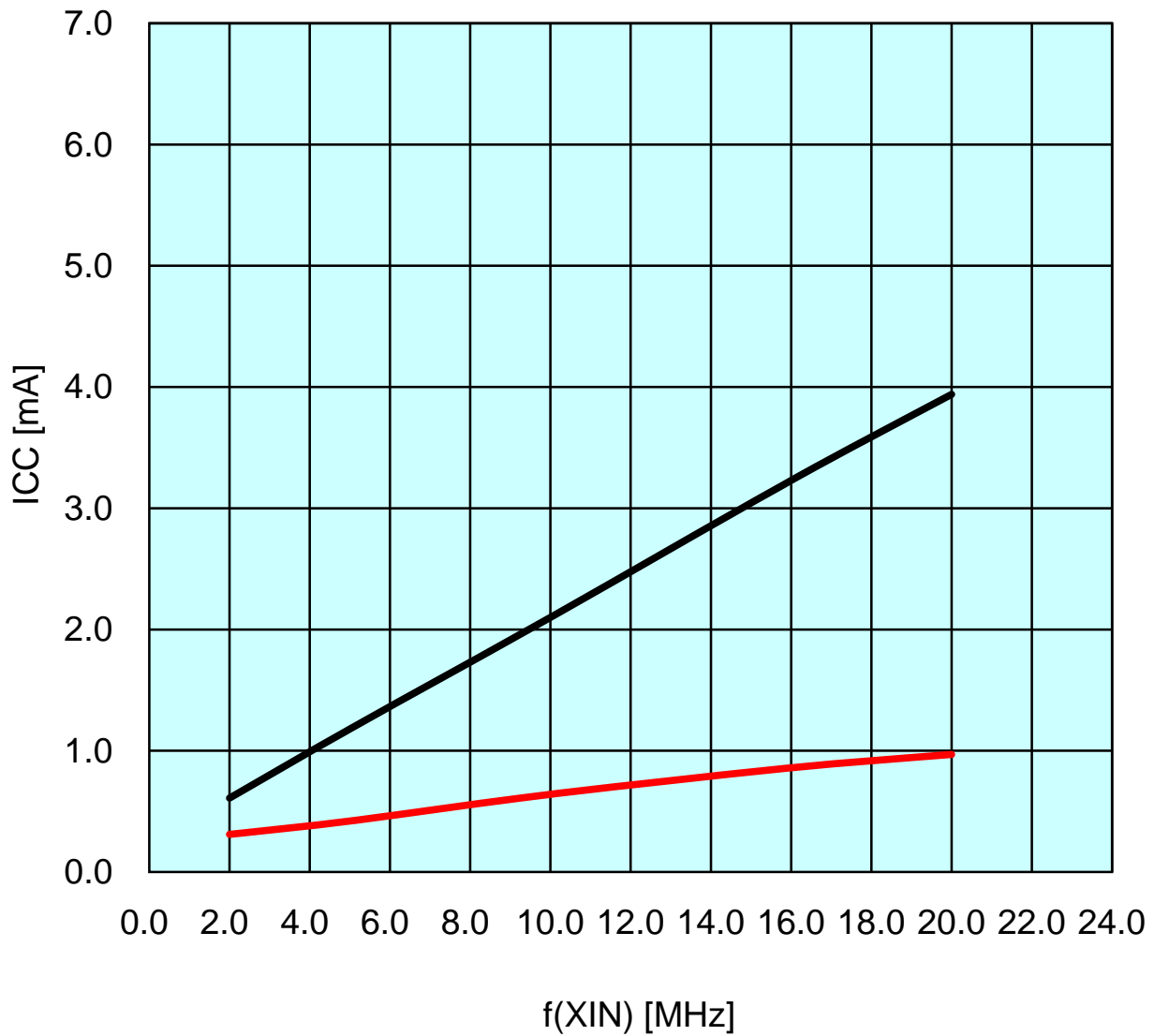
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— No division

— Divide-by-8



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I_{CC} VS f(XIN) (High-speed clock mode)

Prepared on Jun. 30,

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V_{CC}=1.8V

T_{opr}=25degrees C

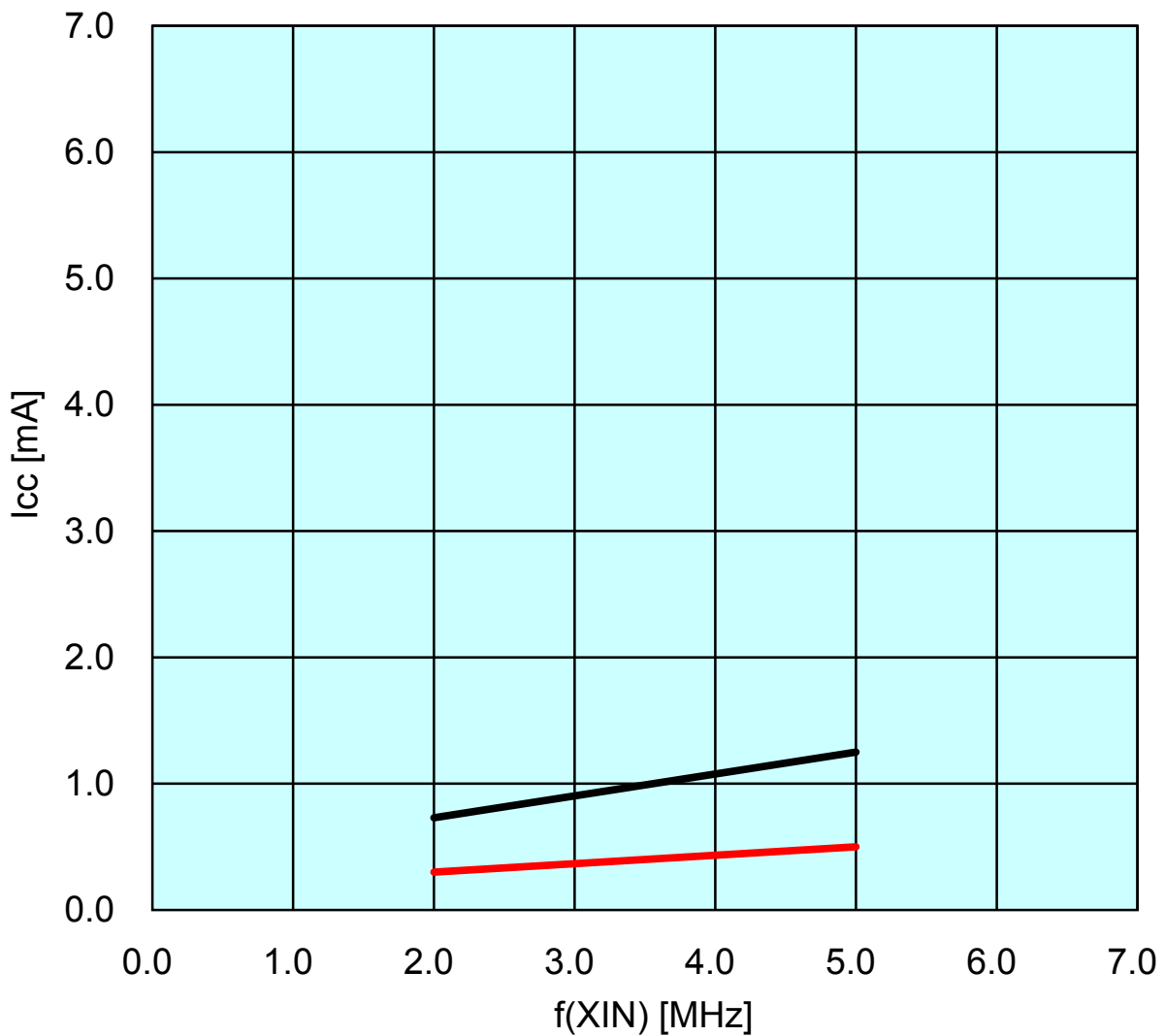
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— No division

— Divide-by-8



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I_{CC} VS f(XIN) (High-speed clock mode)

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V_{CC}=1.8V

T_{opr}=85degrees C

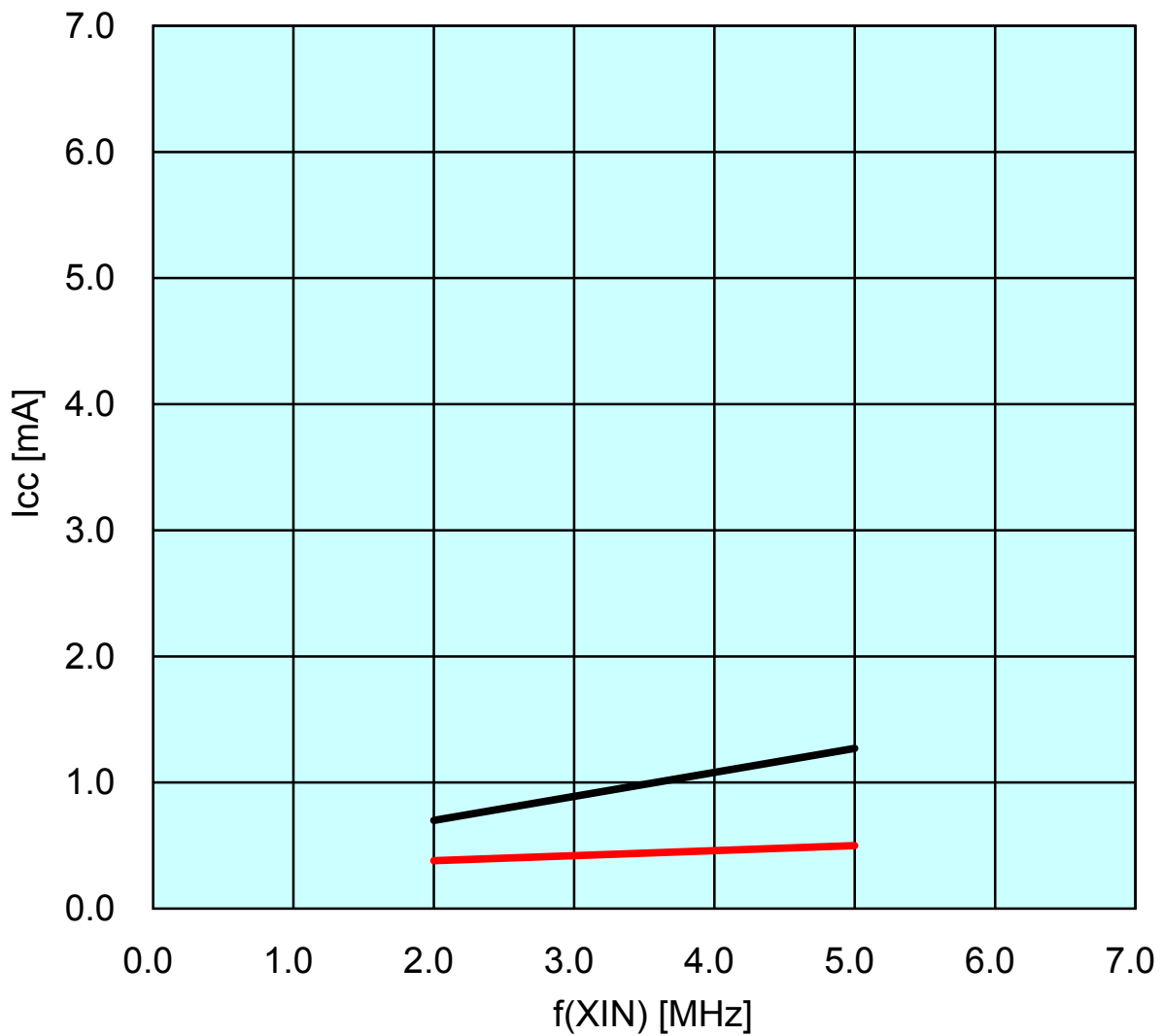
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— No division

— Divide-by-8



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I_{CC} VS f(XIN) (High-speed clock mode)

Prepared on Jun. 30,

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V_{CC}=1.8V

T_{opr}=-40degrees C

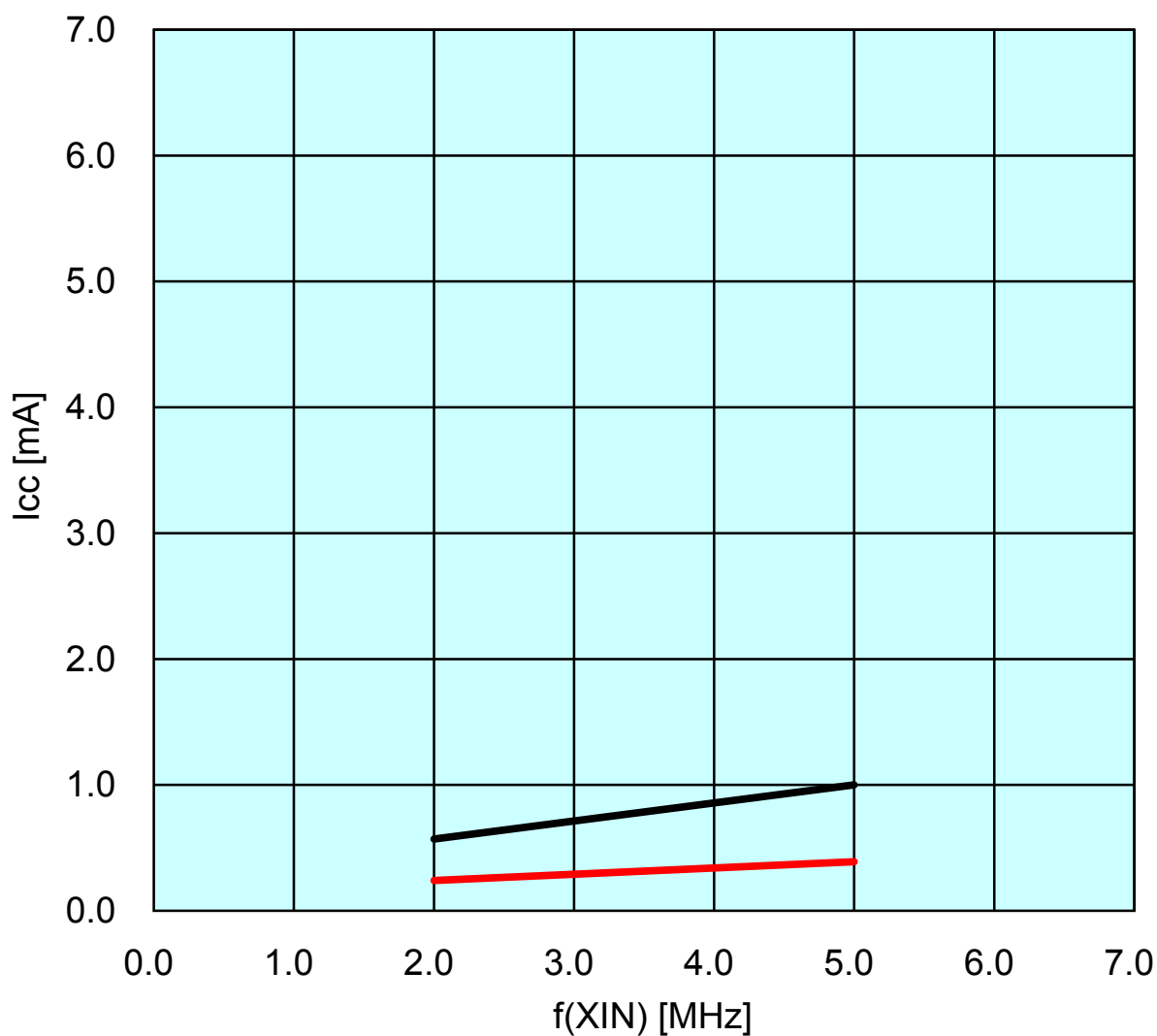
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— No division

— Divide-by-8



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Icc vs Topr

(Low-Speed On-Chip Oscillator mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

Divide-by-8

XIN clock off

High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

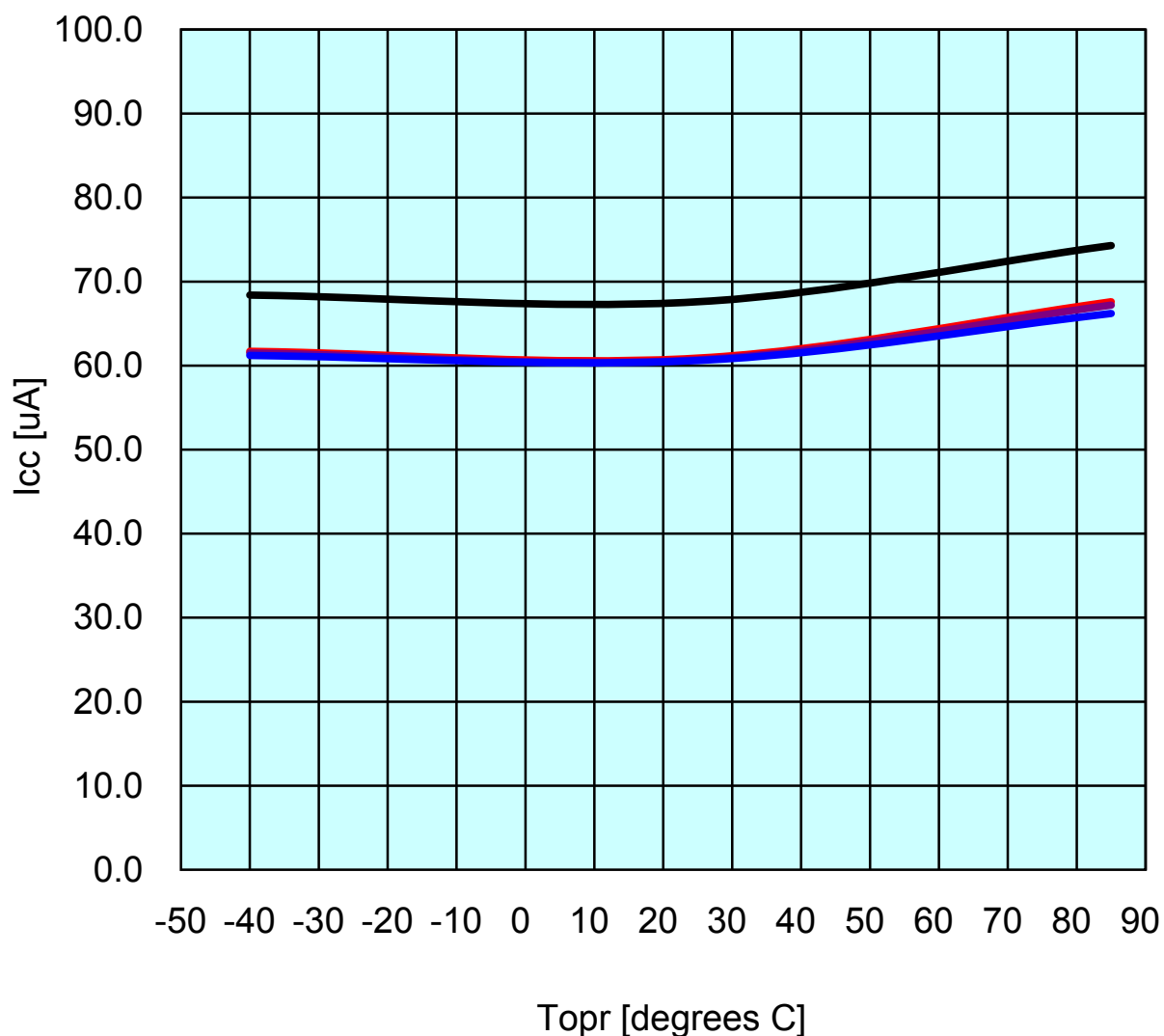
FMR27 = 1, VCA20 = 0

— Vcc=5V

— Vcc=3V

— Vcc=2.2V

— Vcc=1.8V



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I_{cc} vs T_{opr} (Stop mode)

Prepared on Jun. 30, 2010

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XIN clock off

High-speed on-chip oscillator off

Low-speed on-chip oscillator off

CM10 = 1

Peripheral clock off

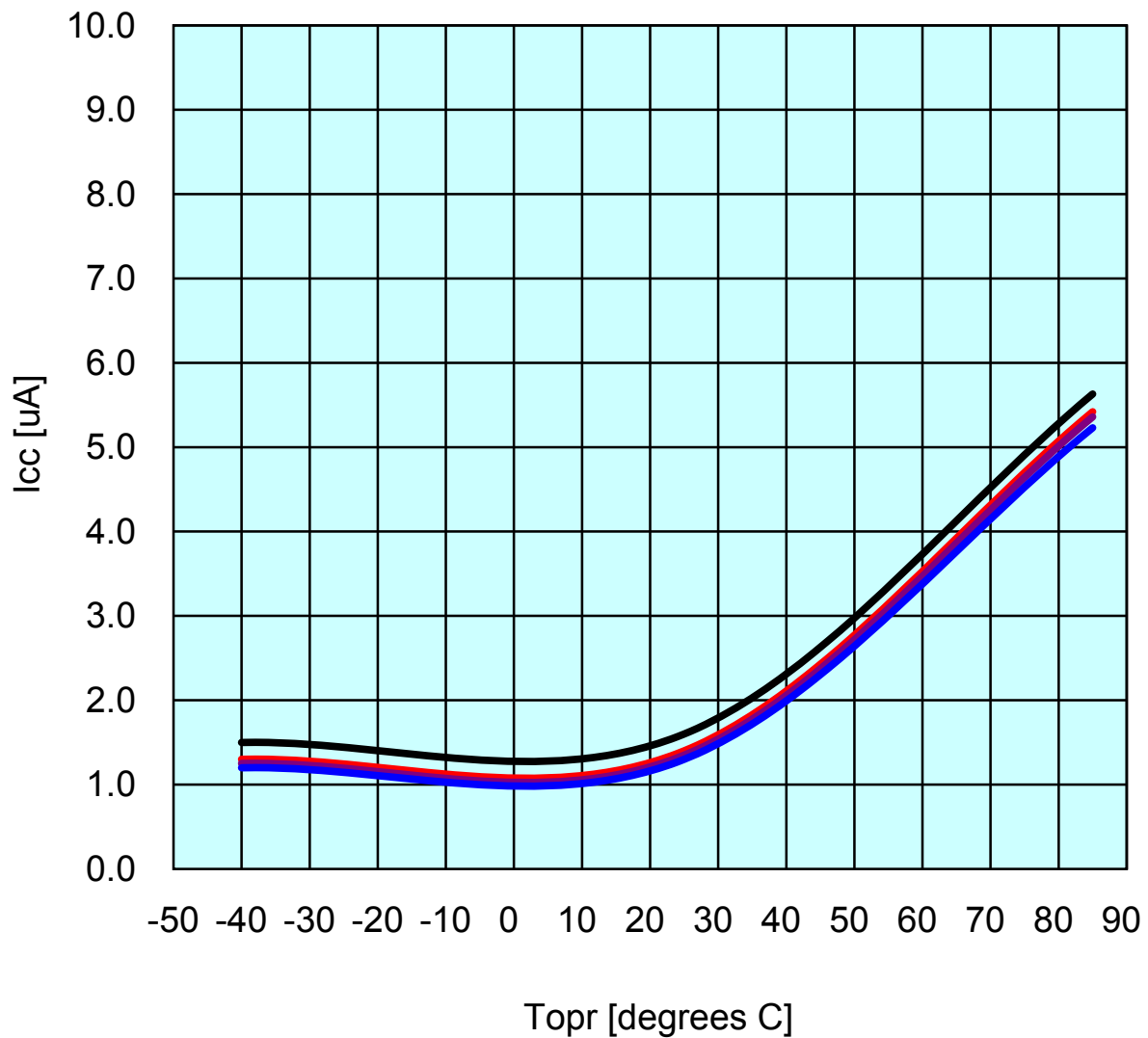
VCA27 = VCA26 = VCA25 = 0

— V_{cc}=5V

— V_{cc}=3V

— V_{cc}=2.2V

— V_{cc}=1.8V



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Icc vs Topr (Wait mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

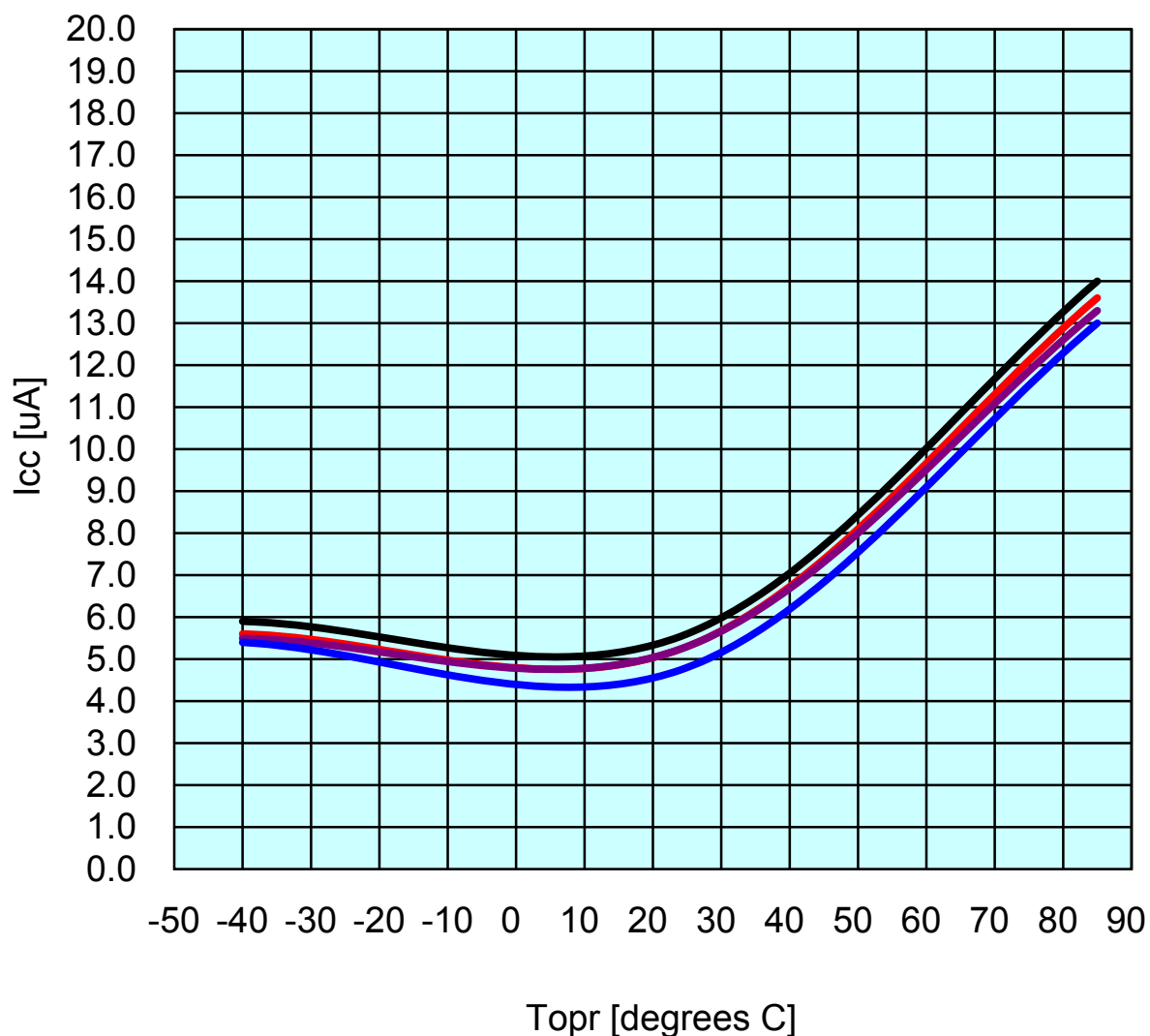
While a WAIT instruction is executed

Peripheral clock operation

VCA27 = VCA26 = VCA25 = 0

VCA20 = 1

— Vcc=5V
— Vcc=3V
— Vcc=2.2V
— Vcc=1.8V



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Icc vs Topr (Wait mode)

Prepared on Jun. 30, 2010

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XIN clock off

High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

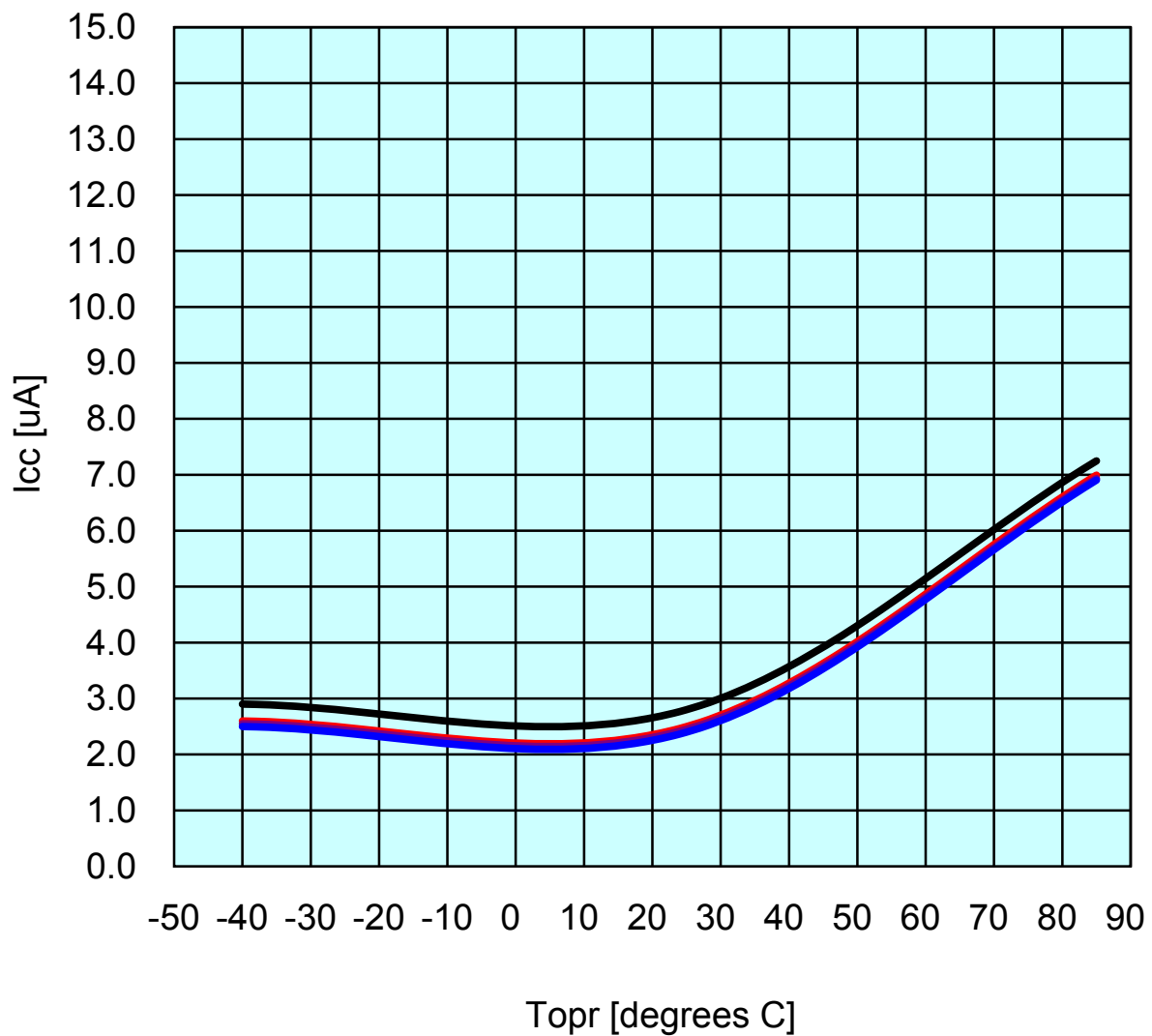
While a WAIT instruction is executed

Peripheral clock off

VCA27 = VCA26 = VCA25 = 0

VCA20 = 1

— Vcc=5V
— Vcc=3V
— Vcc=2.2V
— Vcc=1.8V



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Icc vs Topr (Wait mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock = 5MHz

High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

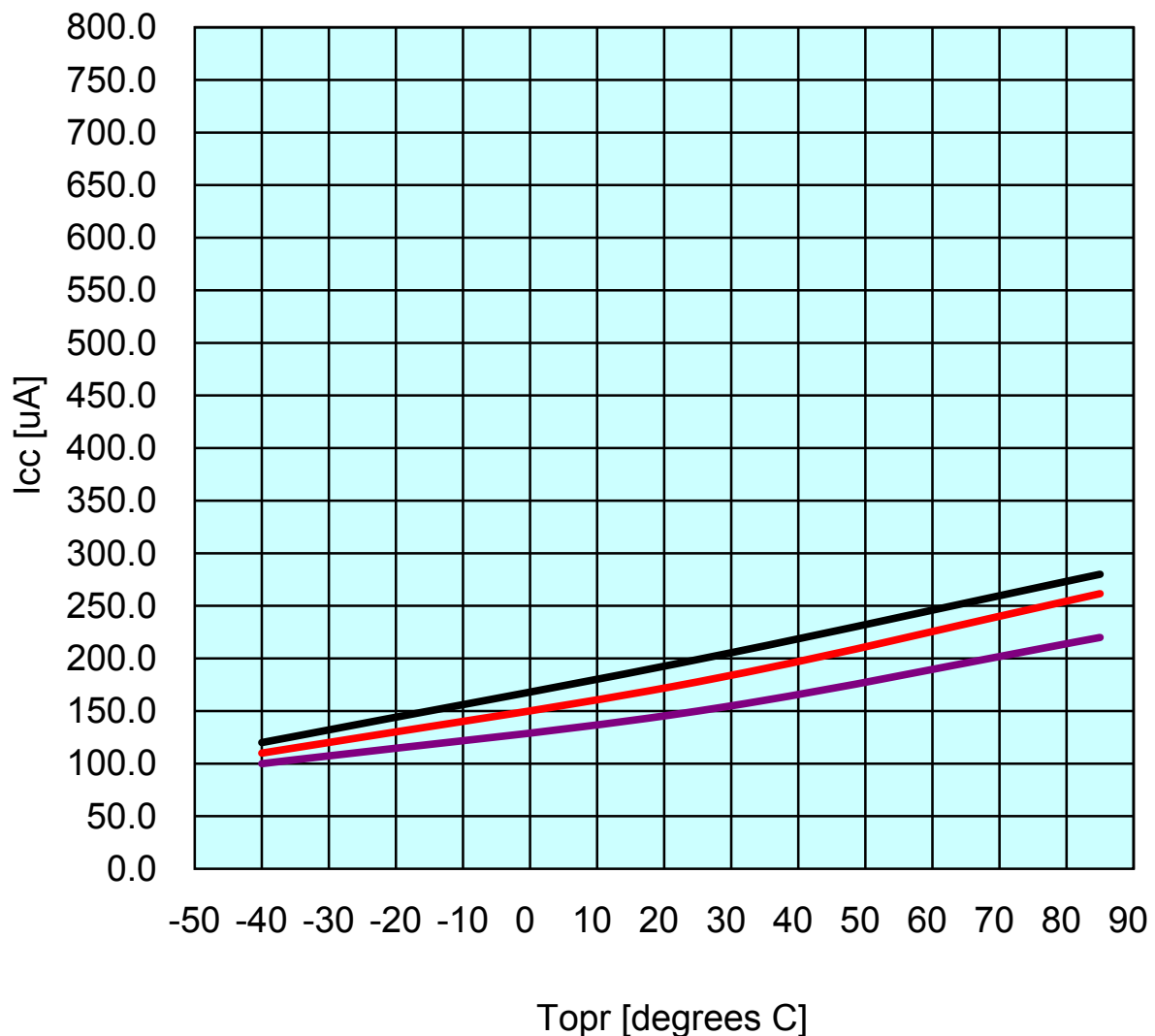
While a WAIT instruction is executed

Peripheral clock operation

VCA27 = VCA26 = VCA25 = VCA20 = 0

Sensor Control Unit on

— Vcc=5V
— Vcc=3V
— Vcc=2.2V



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Icc vs Topr (Wait mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

High-speed on-chip oscillator 5MHz

Low-speed on-chip oscillator on = 125 kHz

While a WAIT instruction is executed

Peripheral clock operation

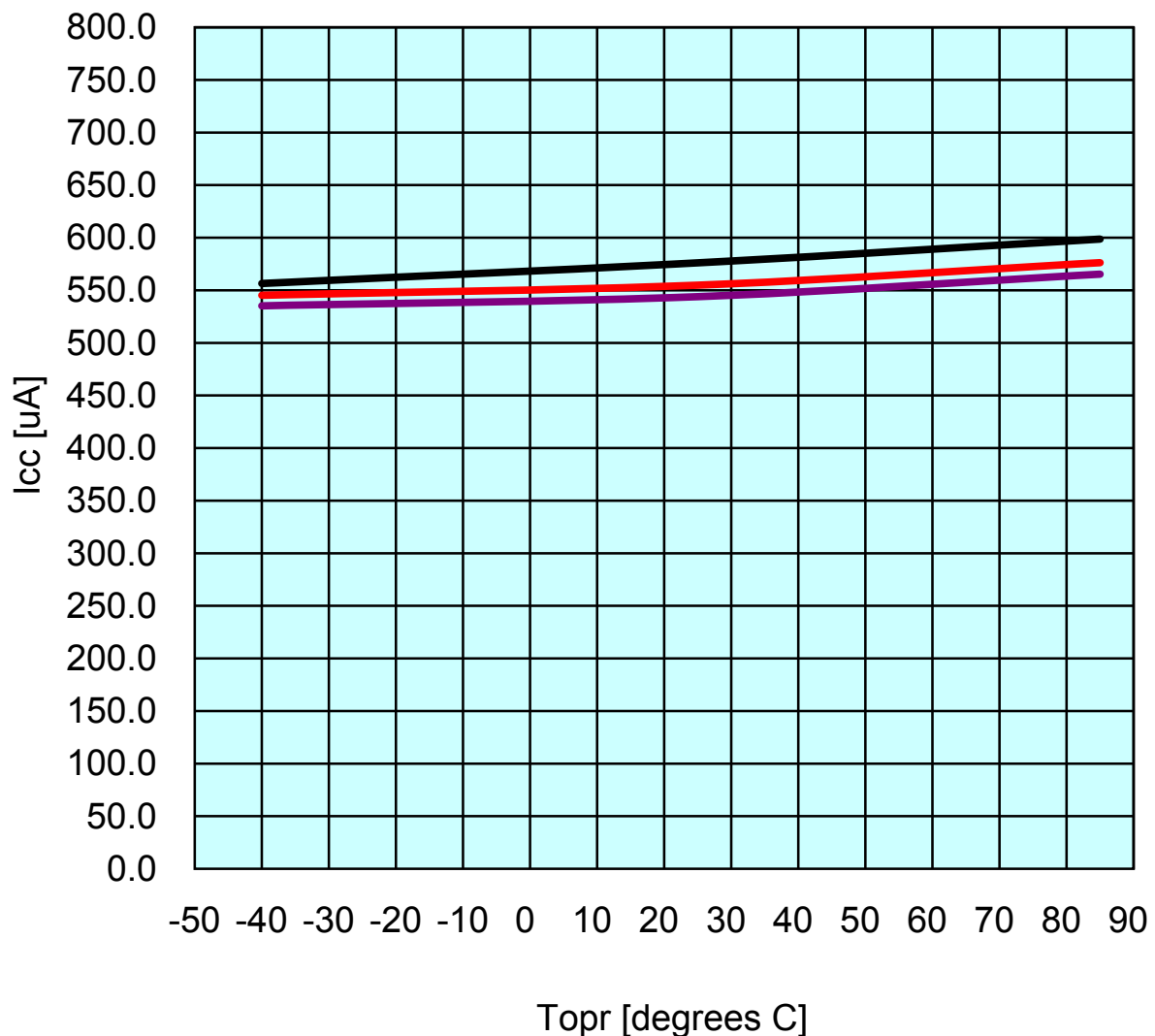
VCA27 = VCA26 = VCA25 = VCA20 = 0

Sensor Control Unit on

— Vcc=5V

— Vcc=3V

— Vcc=2.2V



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I_{cc} vs Topr (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

V_{cc}=5V

XIN (square wave)

High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

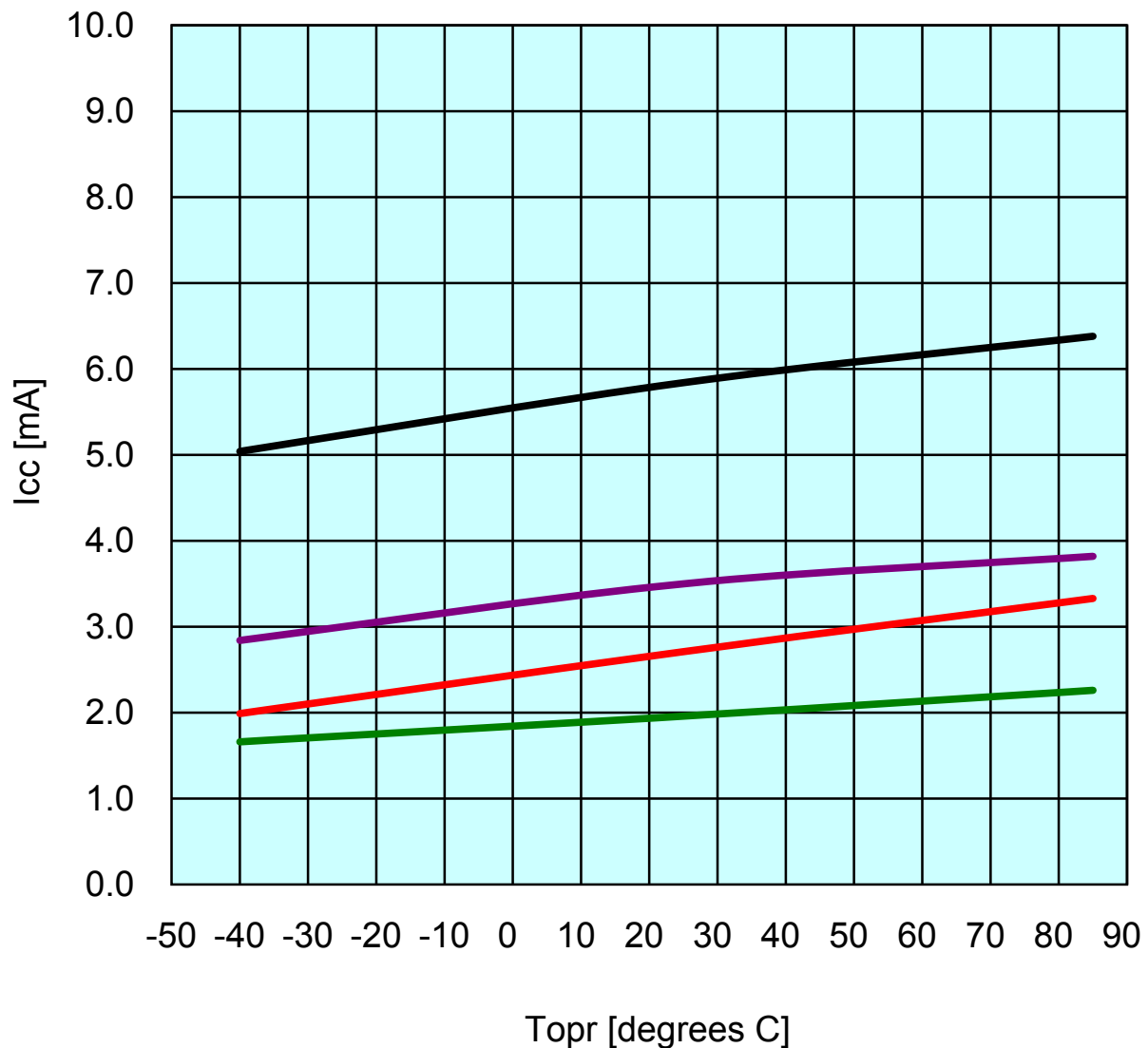
Sensor Control Unit on

— XIN=20MHz no division

— XIN=20MHz divide-by-8

— XIN=10MHz no division

— XIN=10MHz divide-by-8



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Icc vs Topr (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

Vcc=3V

XIN (square wave)

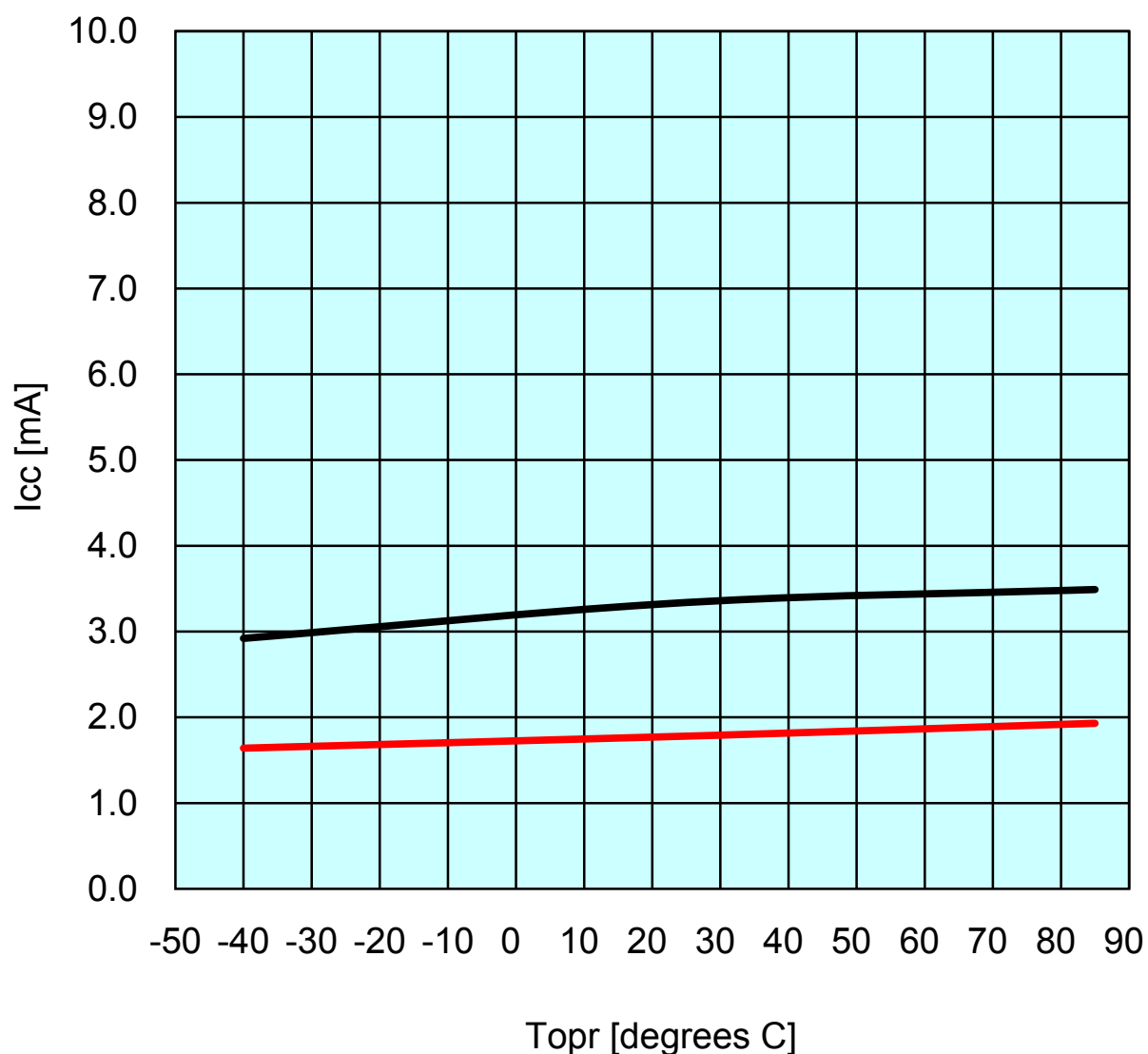
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— XIN=10MHz no division

— XIN=10MHz divide-by-8



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Icc vs Topr (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

Vcc=1.8V

XIN (square wave)

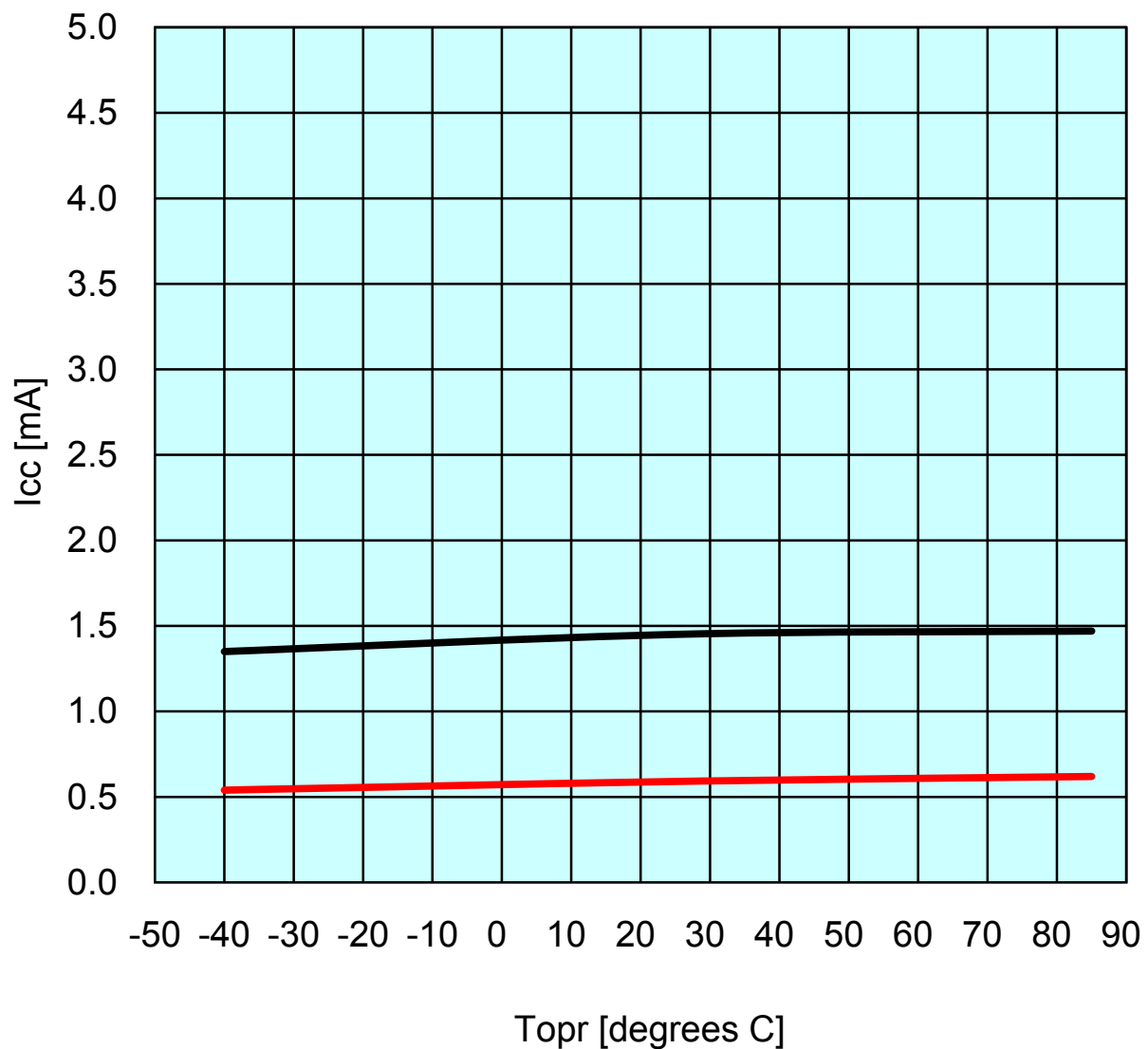
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— XIN=5MHz no division

— XIN=5MHz divide-by-8



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I_{cc} vs Topr

(High-speed on-chip oscillator mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

V_{cc}=5V

XIN clock off

High-speed on-chip oscillator on

Low-speed on-chip oscillator on = 125 kHz

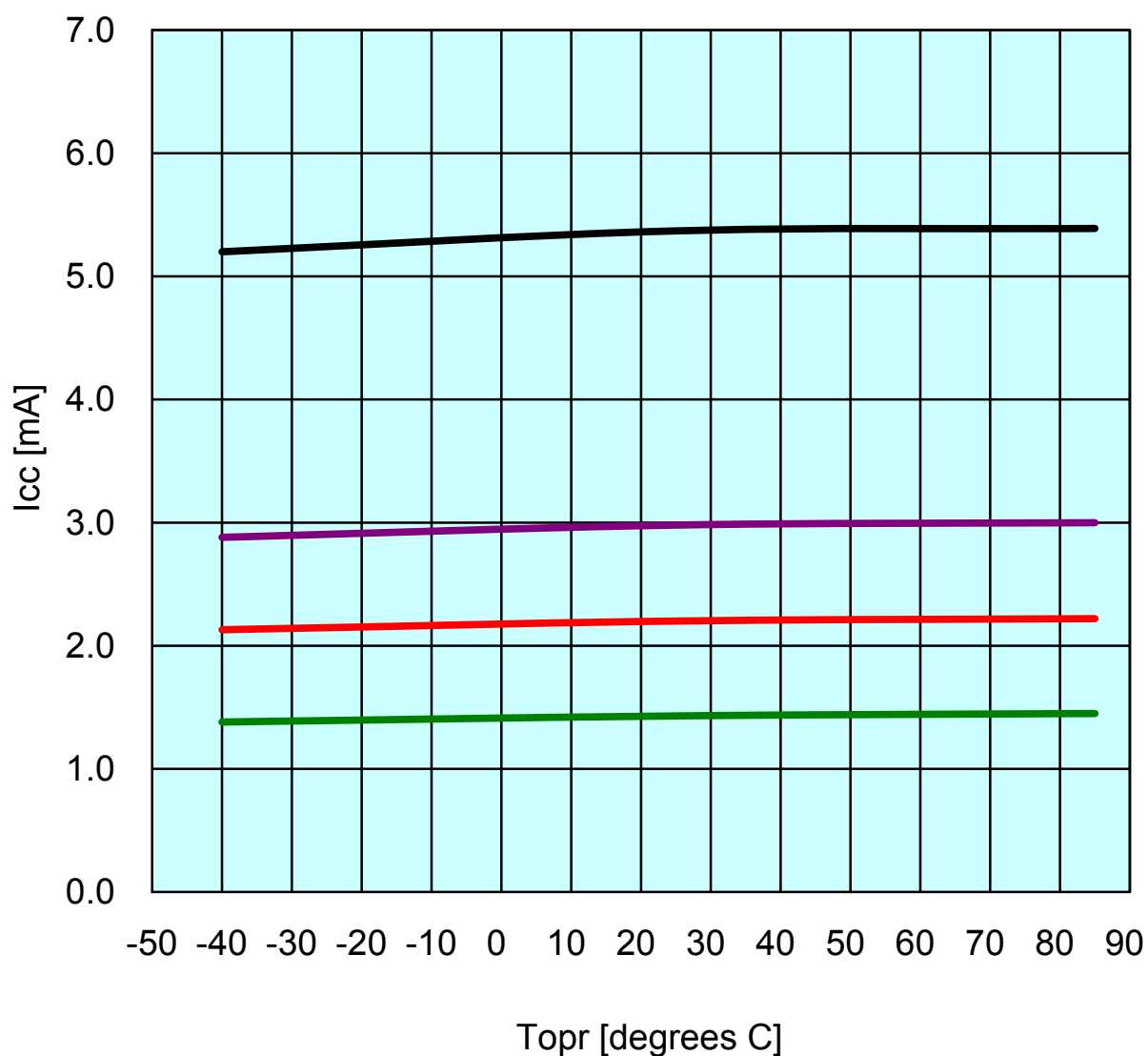
Sensor Control Unit on

— fOCO=20MHz no division

— fOCO=20MHz divide-by-8

— fOCO=10MHz no division

— fOCO=10MHz divide-by-8



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I_{cc} vs Topr

(High-speed on-chip oscillator mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

V_{cc}=3V

XIN clock off

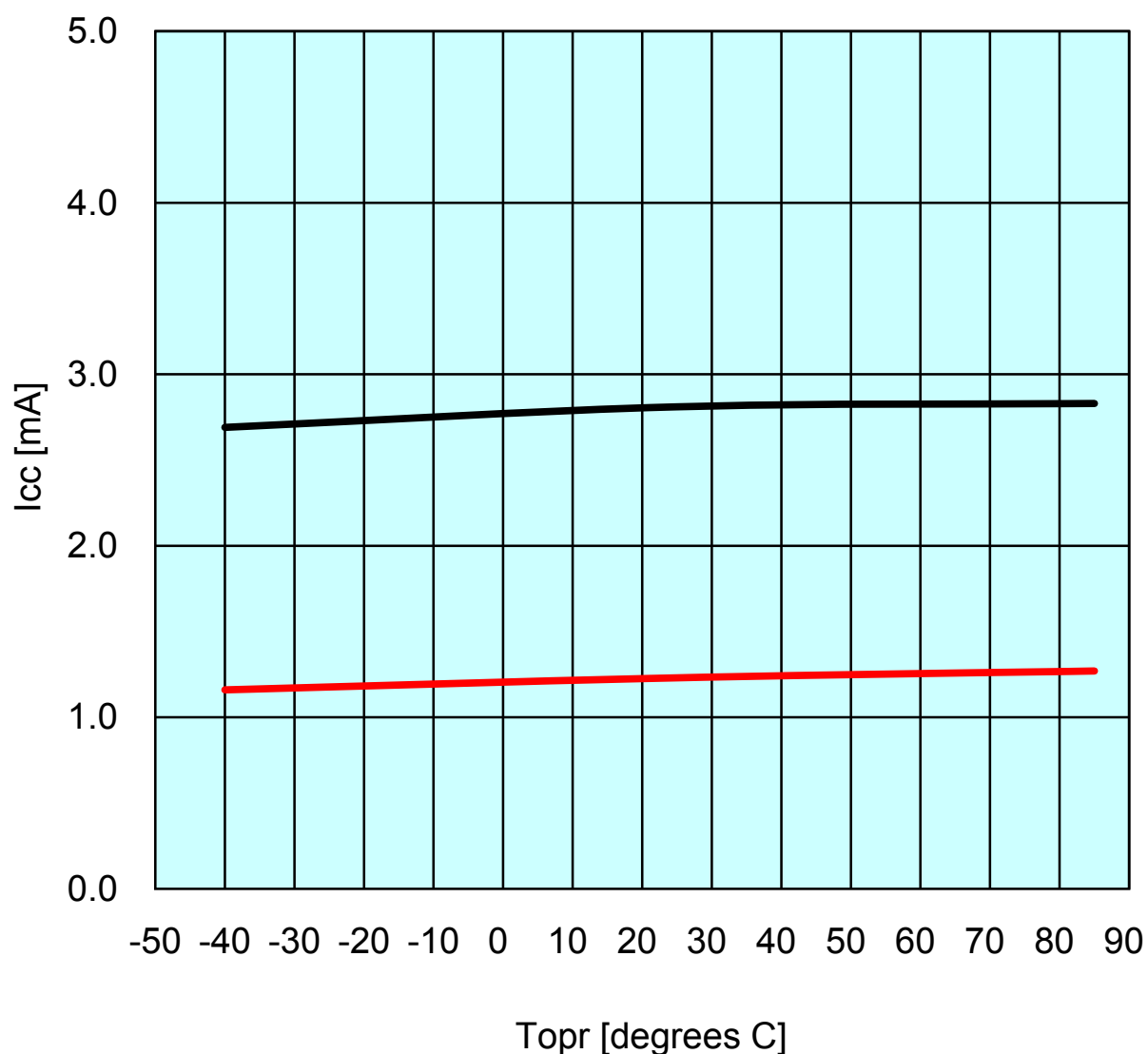
High-speed on-chip oscillator on

Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— fOCO=10MHz no division

— fOCO=10MHz divide-by-8



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Icc vs Topr

(High-speed on-chip oscillator mode)

Prepared on Jun. 30, 2010

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Vcc=1.8V

XIN clock off

High-speed on-chip oscillator on

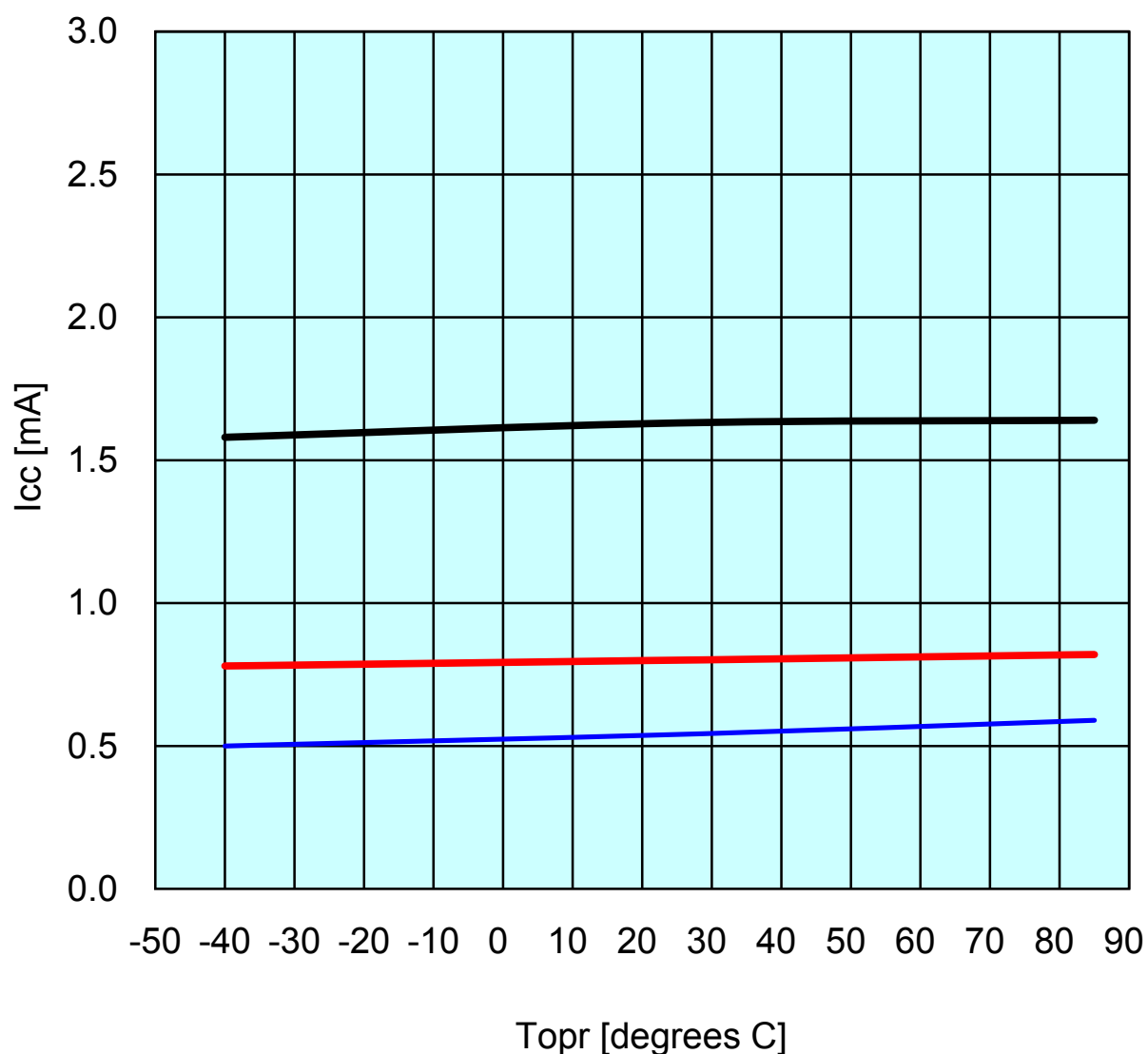
Low-speed on-chip oscillator on = 125 kHz

Sensor Control Unit on

— fOCO=5MHz no division

— fOCO=5MHz divide-by-8

— fOCO=4MHz divide-by-16 MSTTRC = 1



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I_{cc} vs V_{cc}

(Low-Speed On-Chip Oscillator mode)

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Divide-by-8

XIN clock off

High-speed on-chip oscillator off

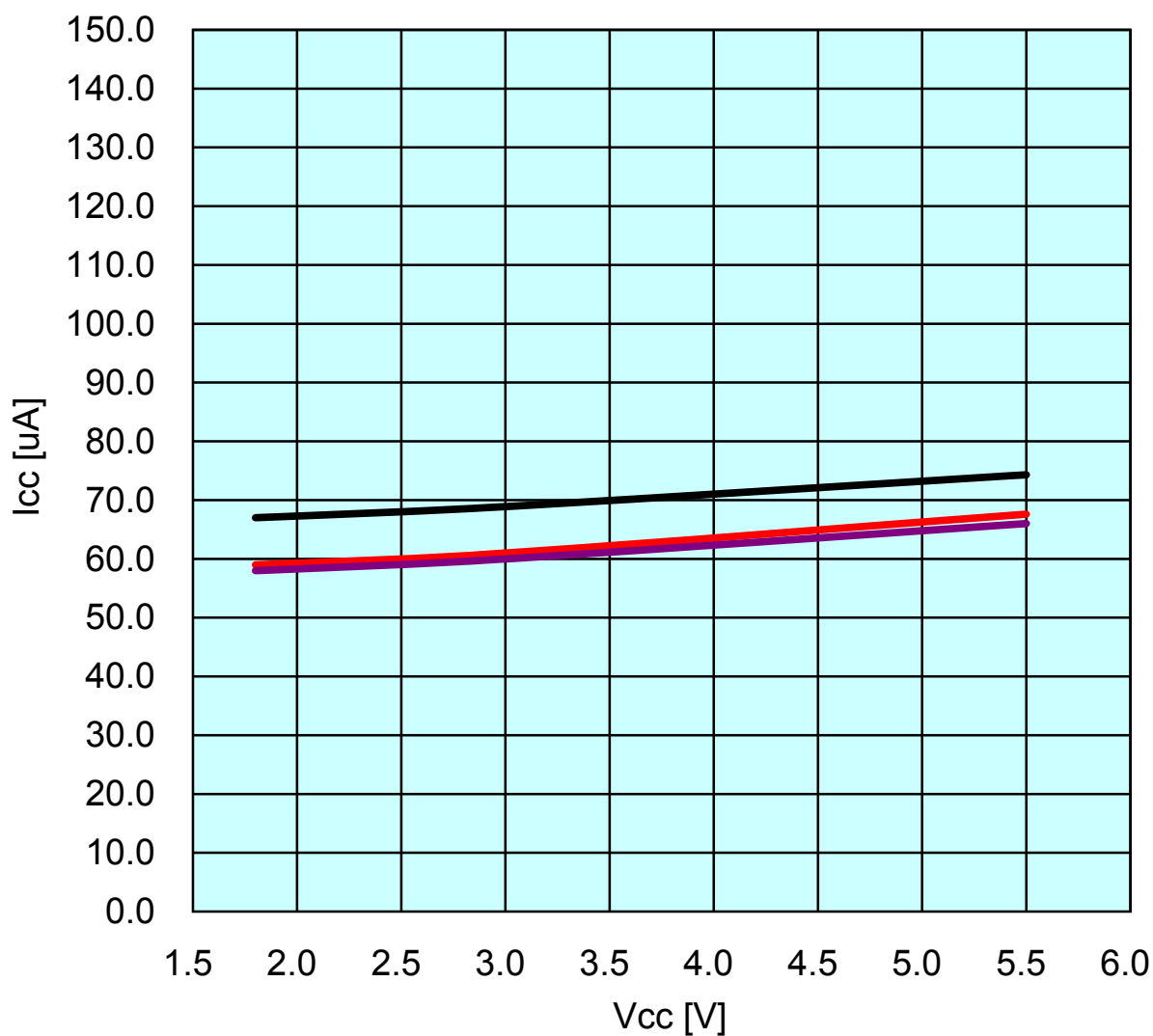
Low-speed on-chip oscillator on = 125 kHz

FMR27 = 1, VCA20 = 0

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc} (Stop mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

High-speed on-chip oscillator off

Low-speed on-chip oscillator off

CM10 = 1

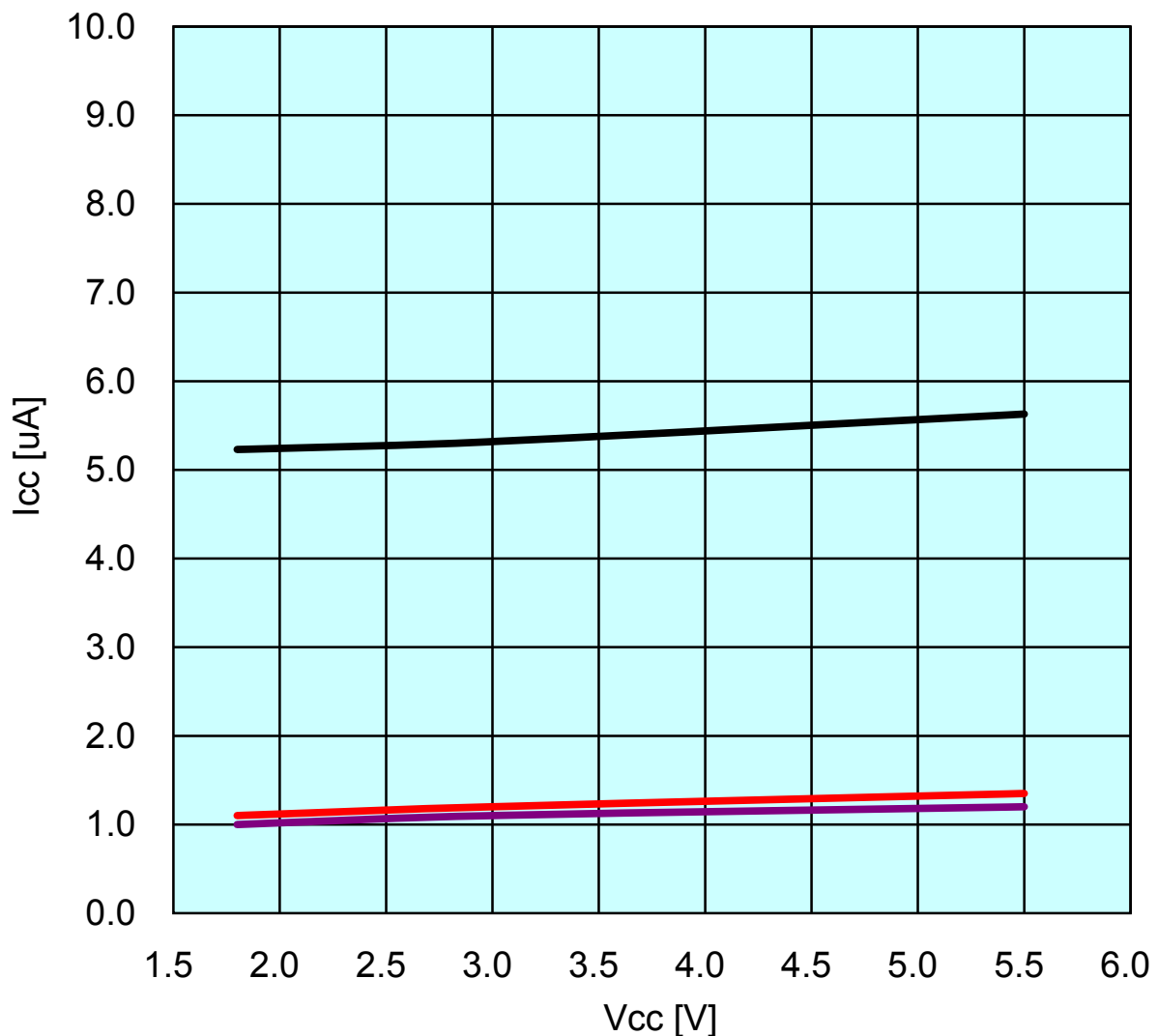
Peripheral clock off

VCA27 = VCA26 = VCA25 = 0

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc} (Wait mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

While a WAIT instruction is executed

Peripheral clock operation

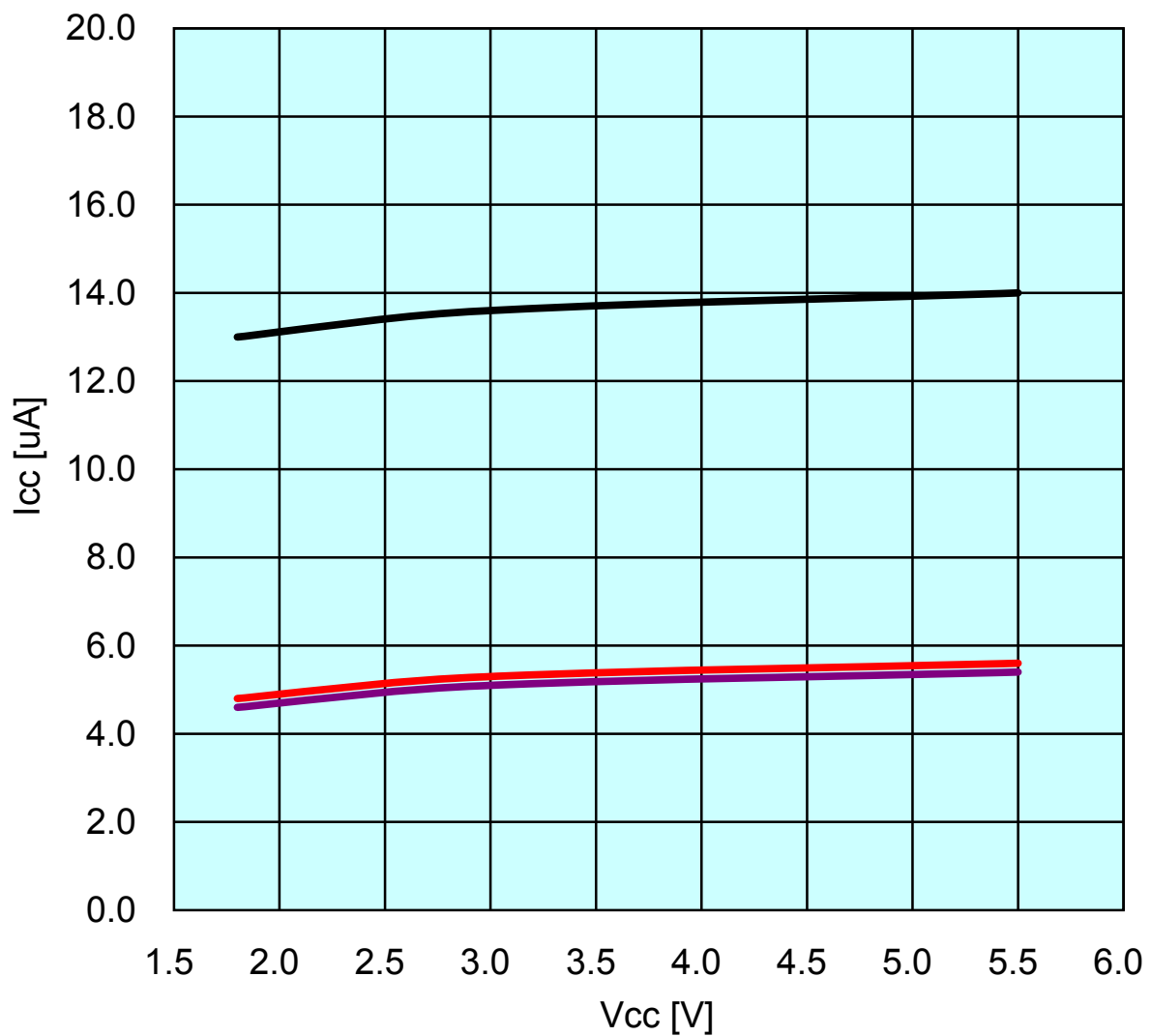
VCA27 = VCA26 = VCA25 = 0

VCA20 = 1

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc} (Wait mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

While a WAIT instruction is executed

Peripheral clock off

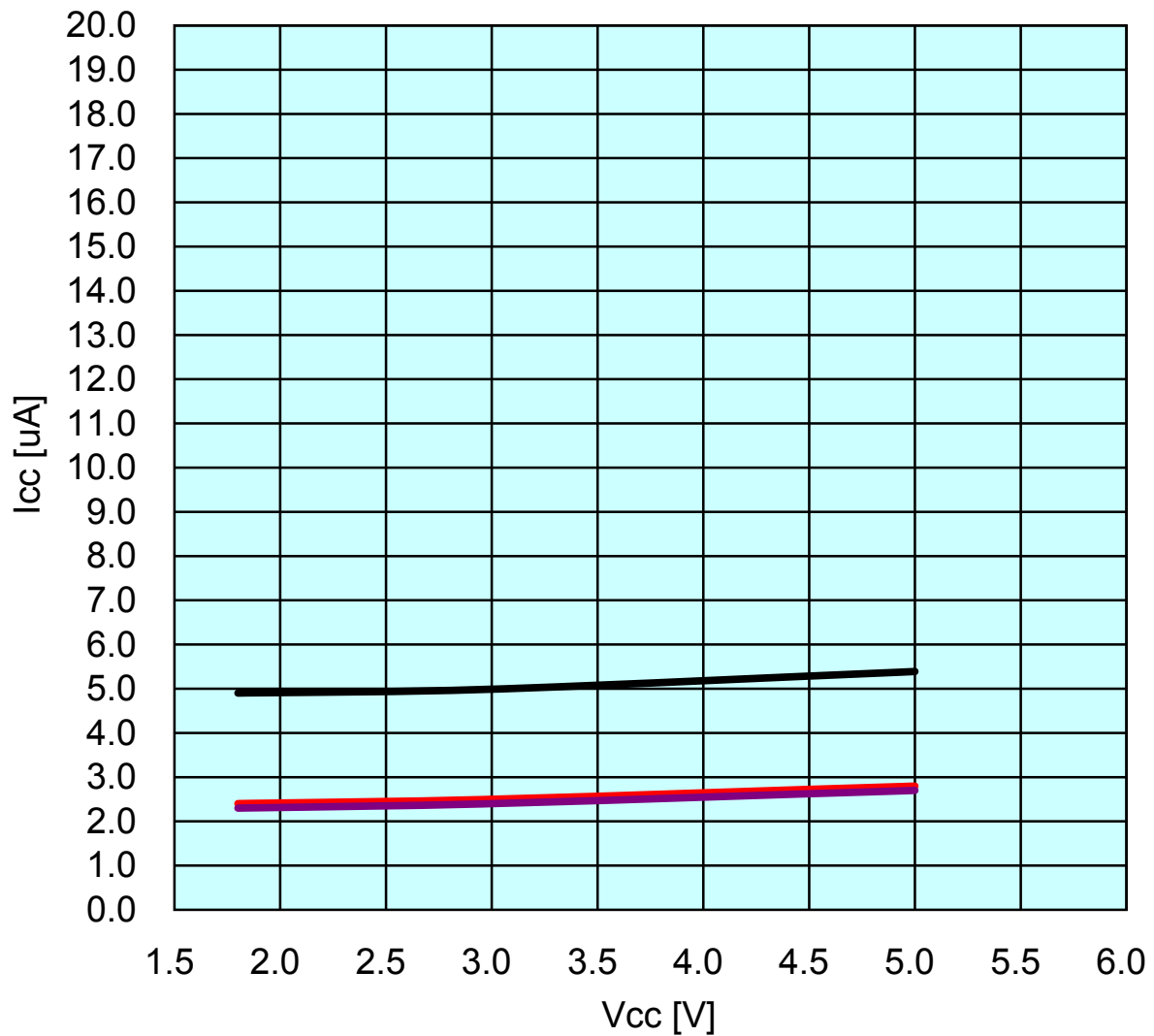
VCA27 = VCA26 = VCA25 = 0

VCA20 = 1

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc} (Wait mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock = 5MHz

High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

While a WAIT instruction is executed

Peripheral clock operation = 5MHz

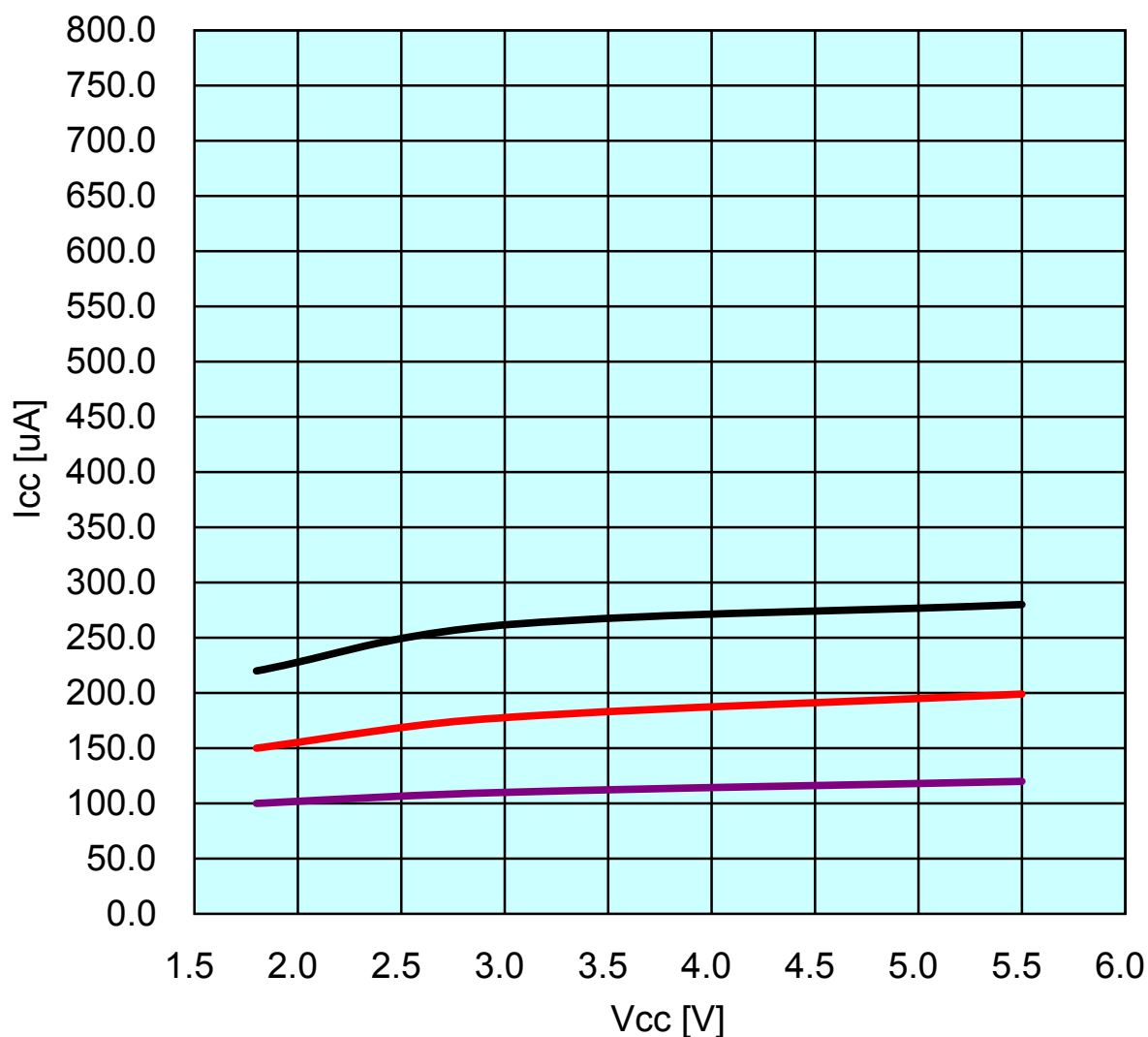
VCA27 = VCA26 = VCA25 = VCA20 = 0

Sensor Control Unit on

— 85degreesC

— 25degreesC

— -40degreesC



The mentioned value is only for your reference. The value is for the arbitrary samples and does not guarantee the product's characteristics.

I_{cc} vs V_{cc} (Wait mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

High-speed on-chip oscillator = 5MHz

Low-speed on-chip oscillator on = 125 kHz

While a WAIT instruction is executed

Peripheral clock operation = 5MHz

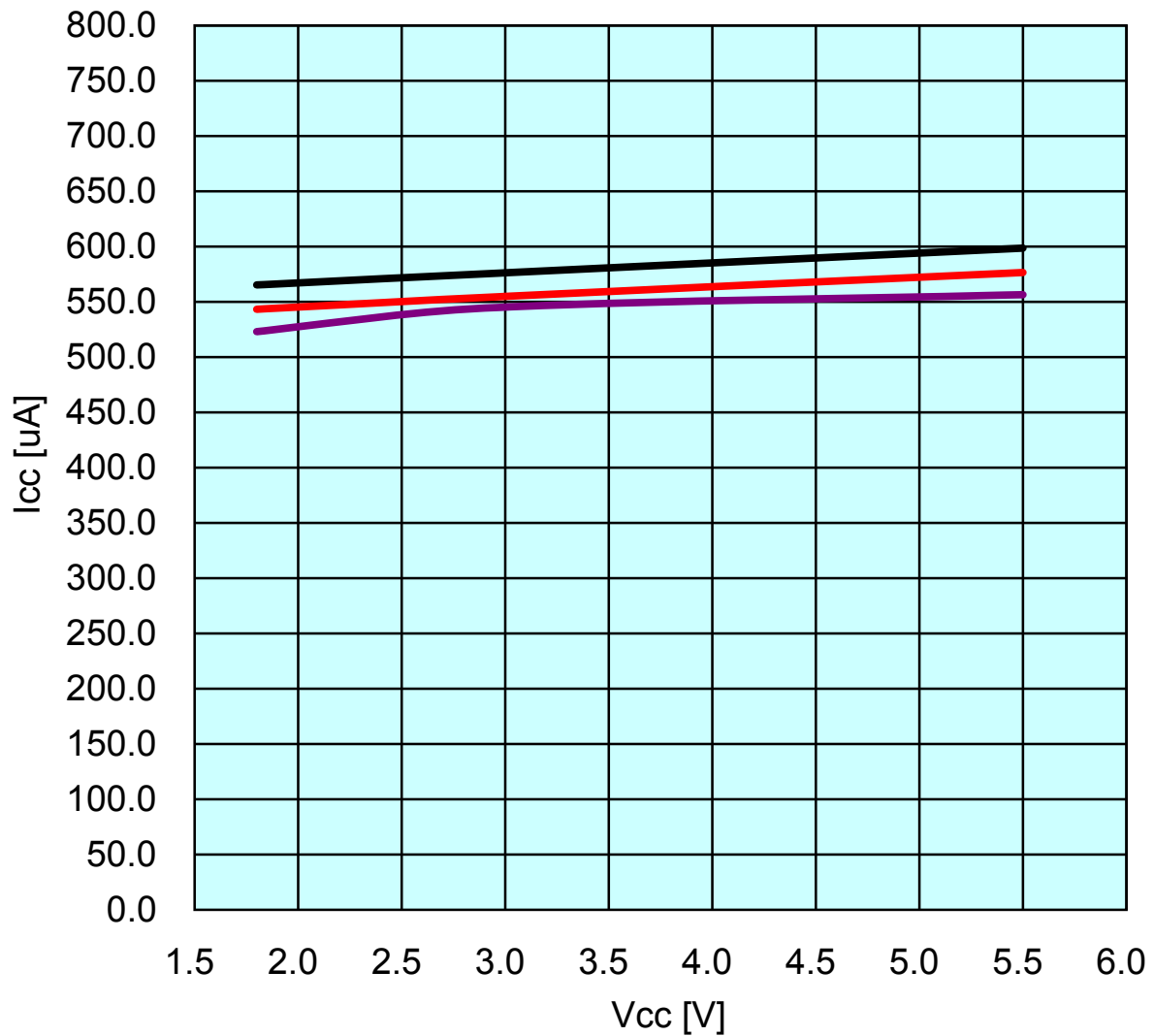
VCA27 = VCA26 = VCA25 = VCA20 = 0

Sensor Control Unit on

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc} (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN = 20 MHz (square wave)

High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

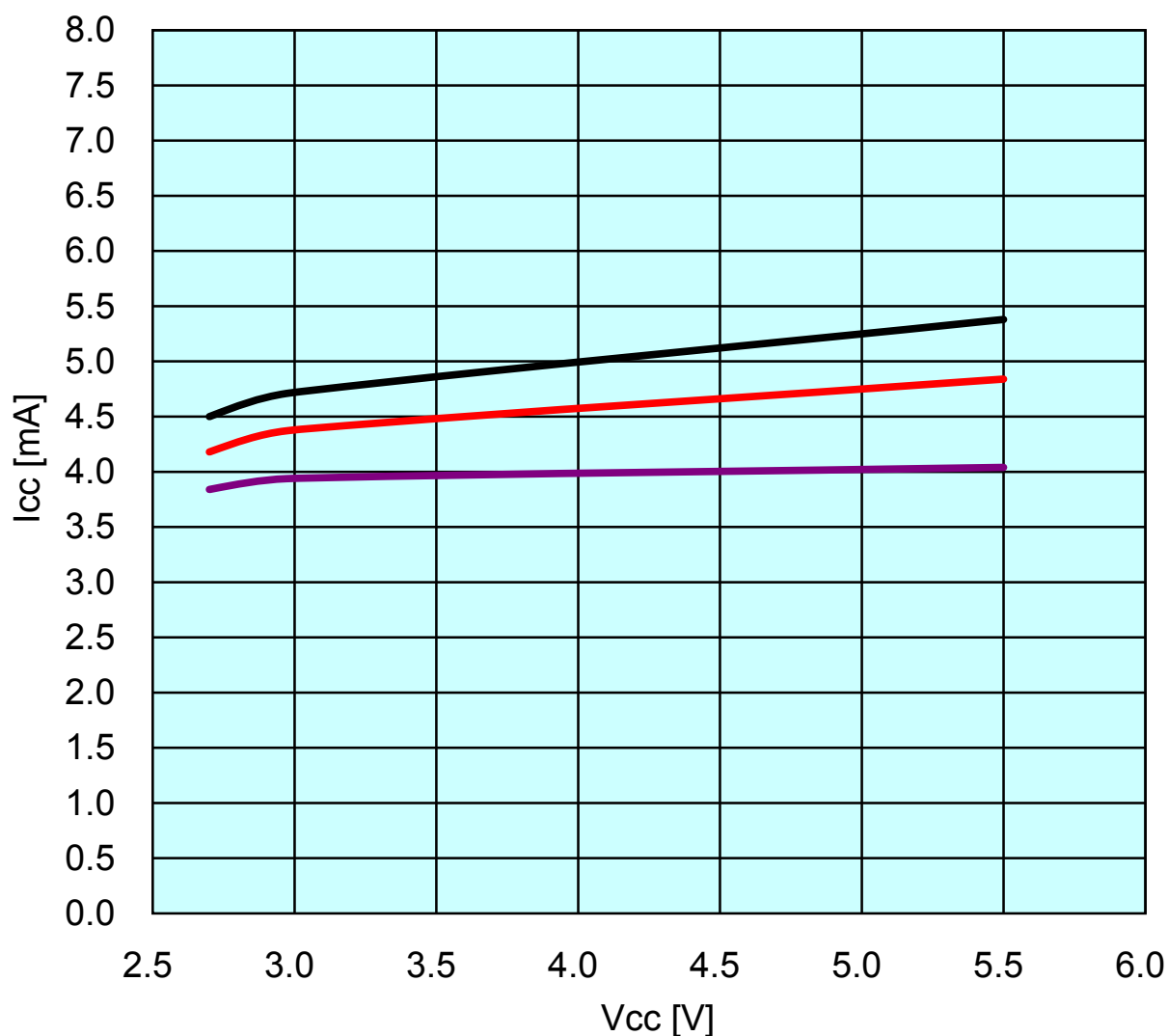
No division

Sensor Control Unit on

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc} (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN = 20 MHz (square wave)

High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

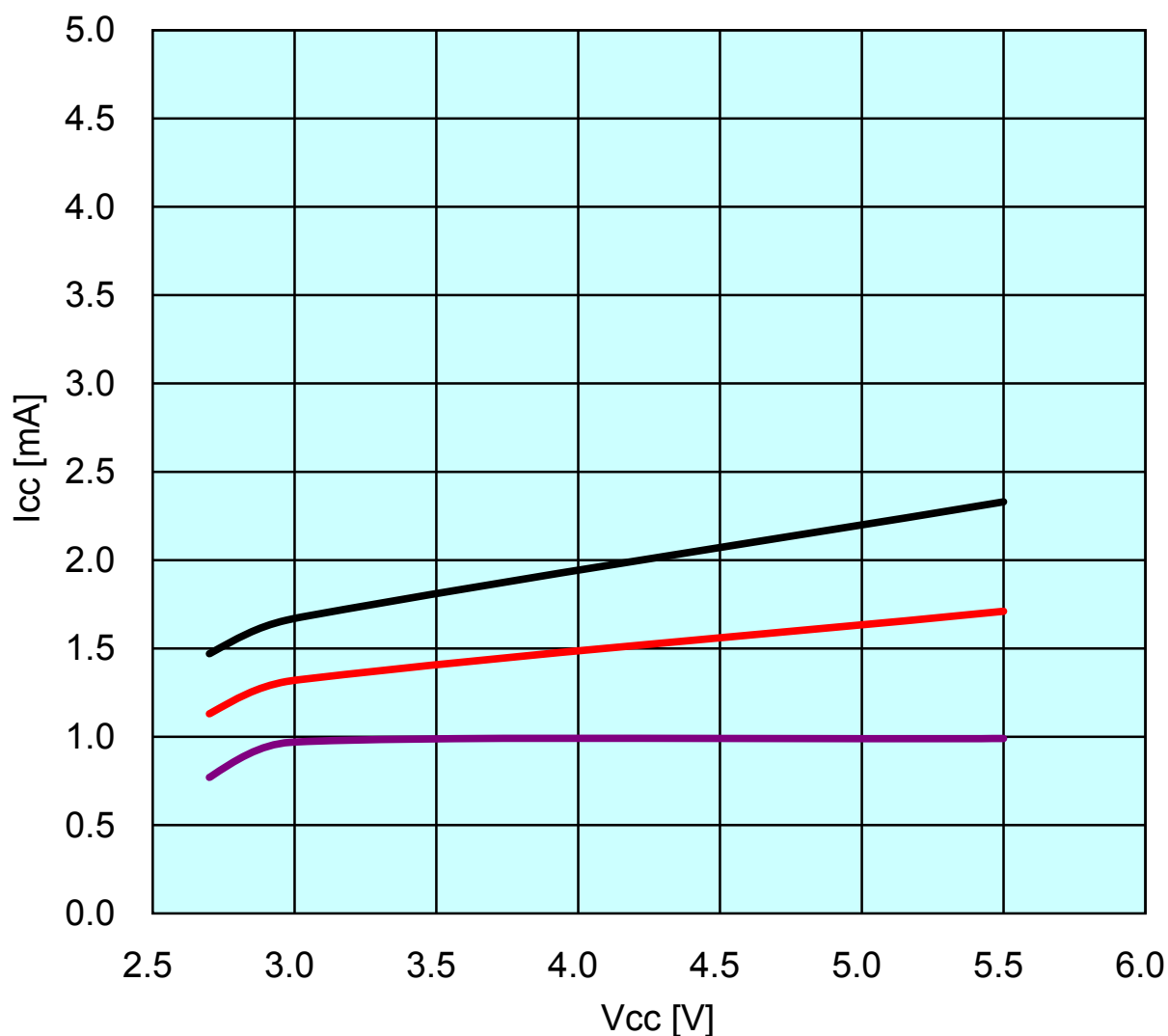
Divide-by-8

Sensor Control Unit on

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc} (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN = 16 MHz (square wave)

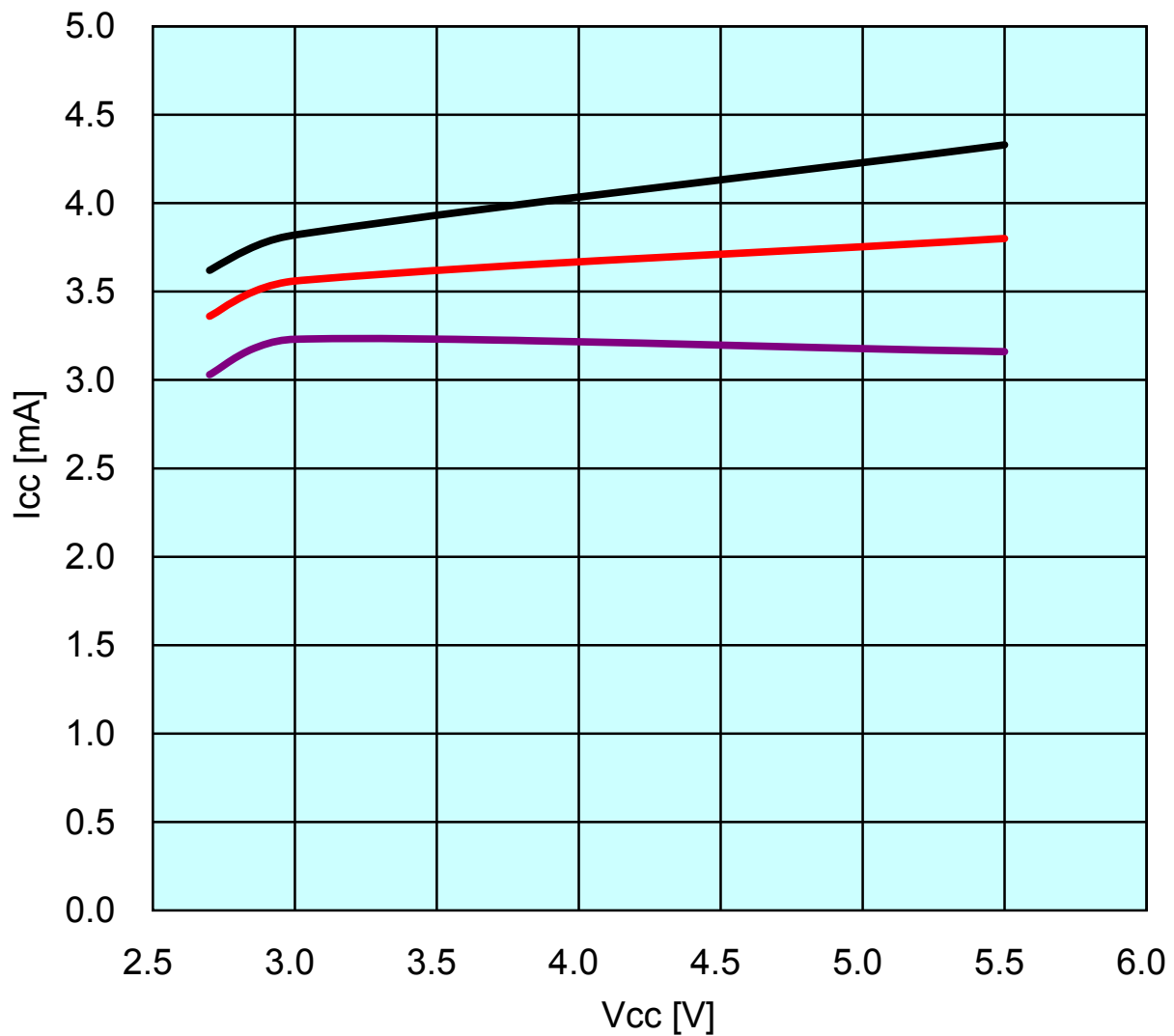
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

No division

Sensor Control Unit on

— 85degreesC
— 25degreesC
— -40degreesC



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I_{cc} vs V_{cc} (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN = 16 MHz (square wave)

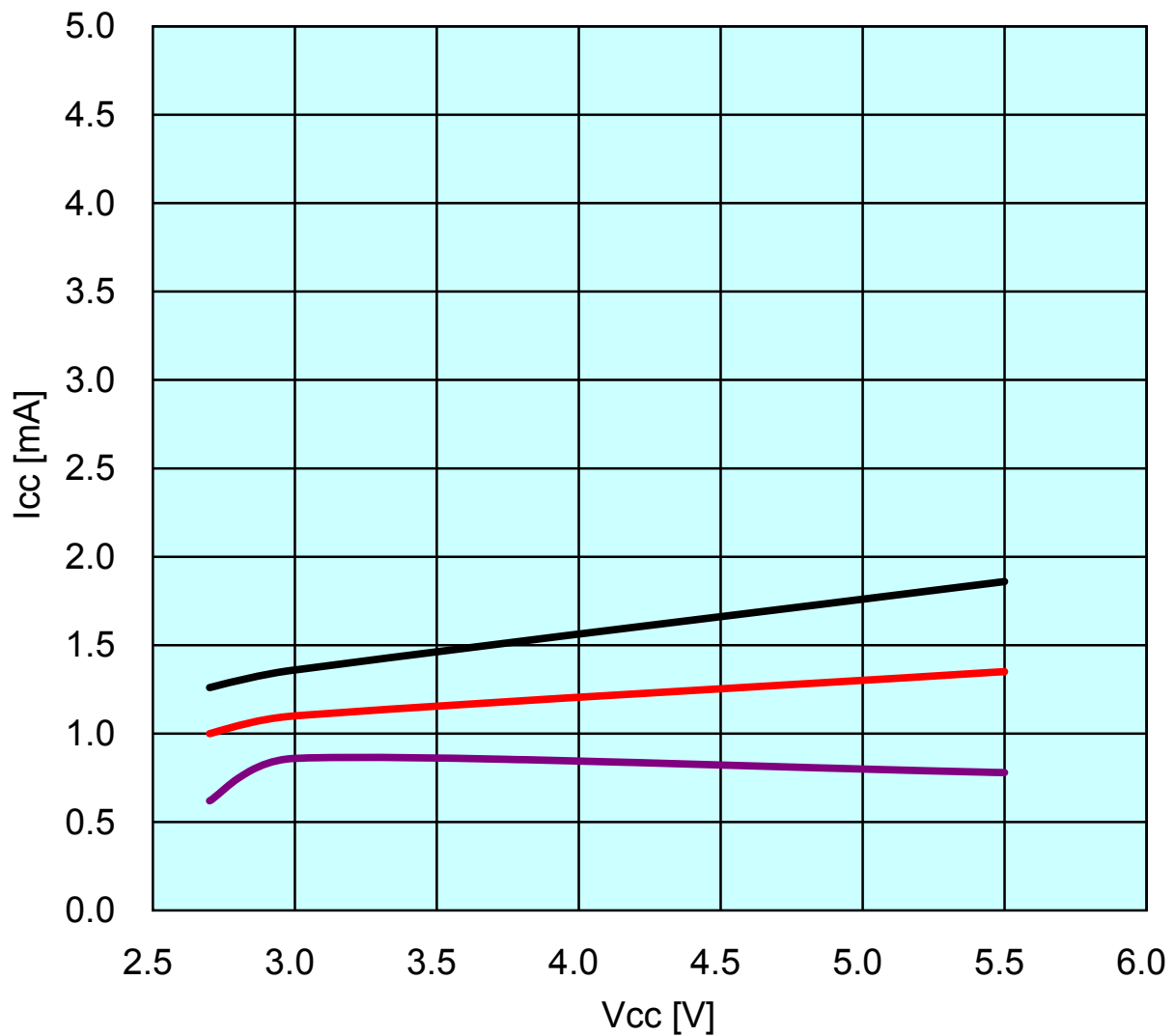
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Divide-by-8

Sensor Control Unit on

— 85degreesC
— 25degreesC
— -40degreesC



The mentioned value is only for your reference. The value is for the arbitrary samples and does not guarantee the product's characteristics.

I_{cc} vs V_{cc} (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN = 10 MHz (square wave)

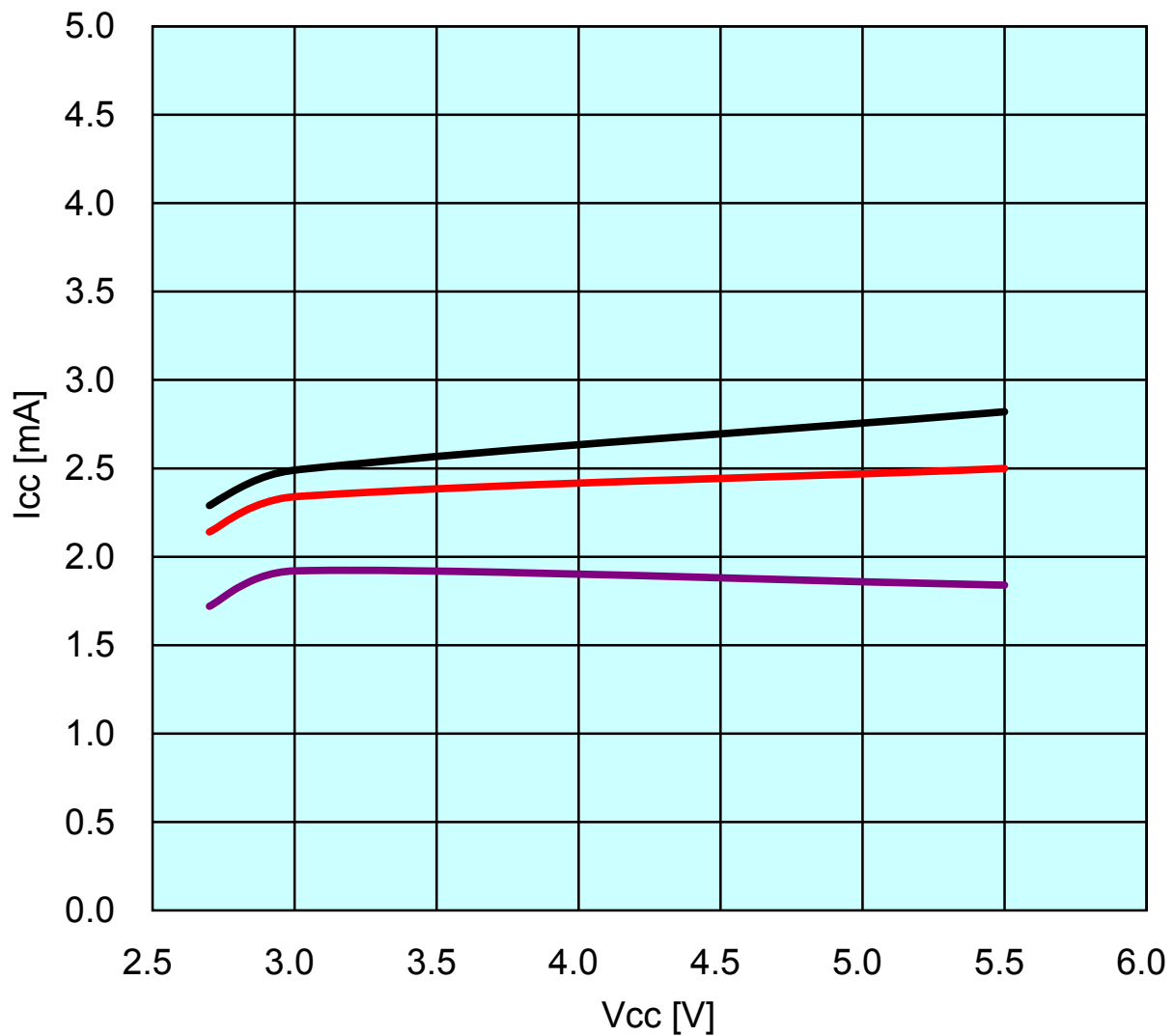
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

No division

Sensor Control Unit on

— 85degreesC
— 25degreesC
— -40degreesC



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I_{cc} vs V_{cc} (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN = 10MHz (square wave)

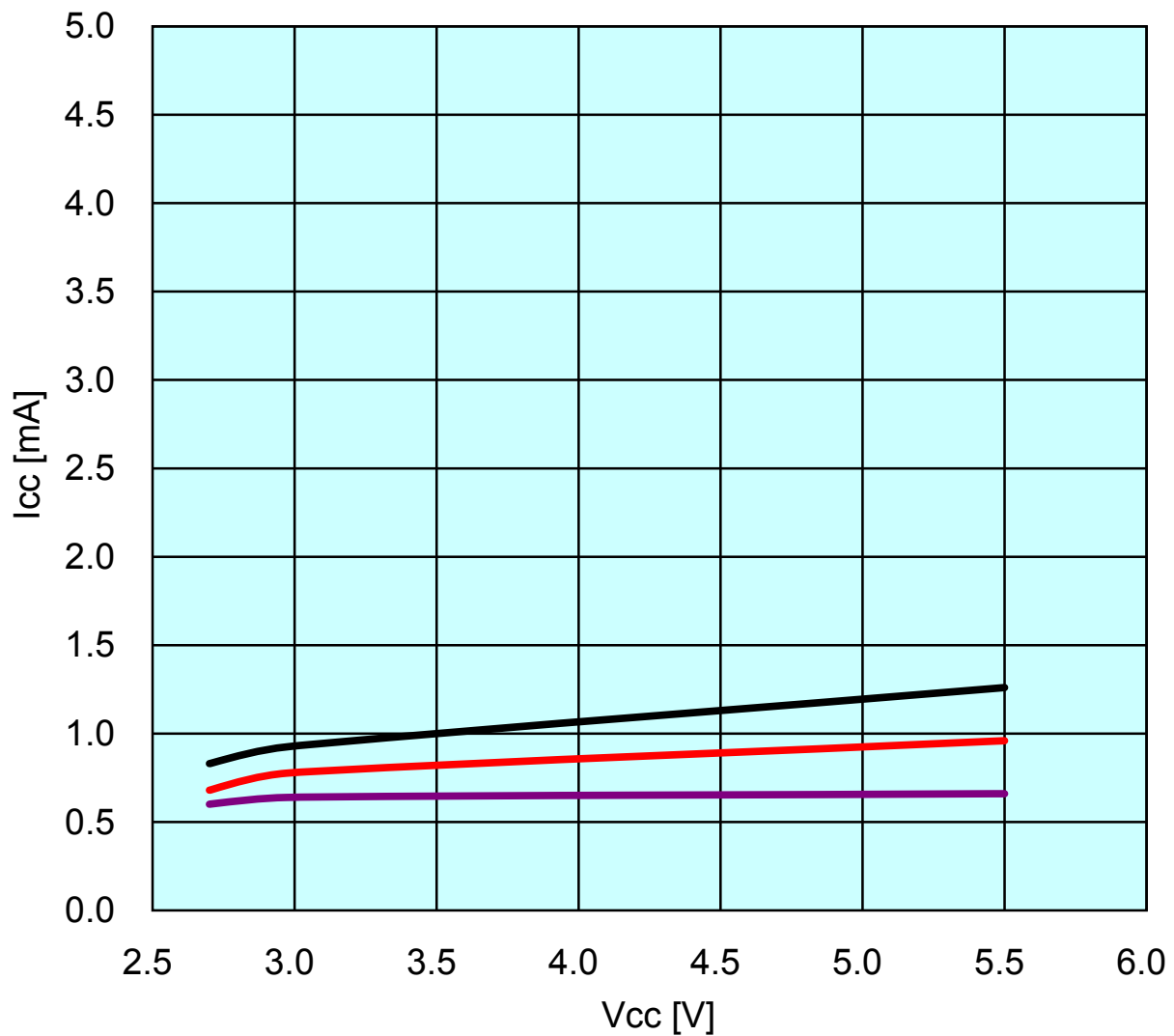
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Divide-by-8

Sensor Control Unit on

— 85degreesC
— 25degreesC
— -40degreesC



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I_{cc} vs V_{cc} (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN = 5 MHz (square wave)

High-speed on-chip oscillator off

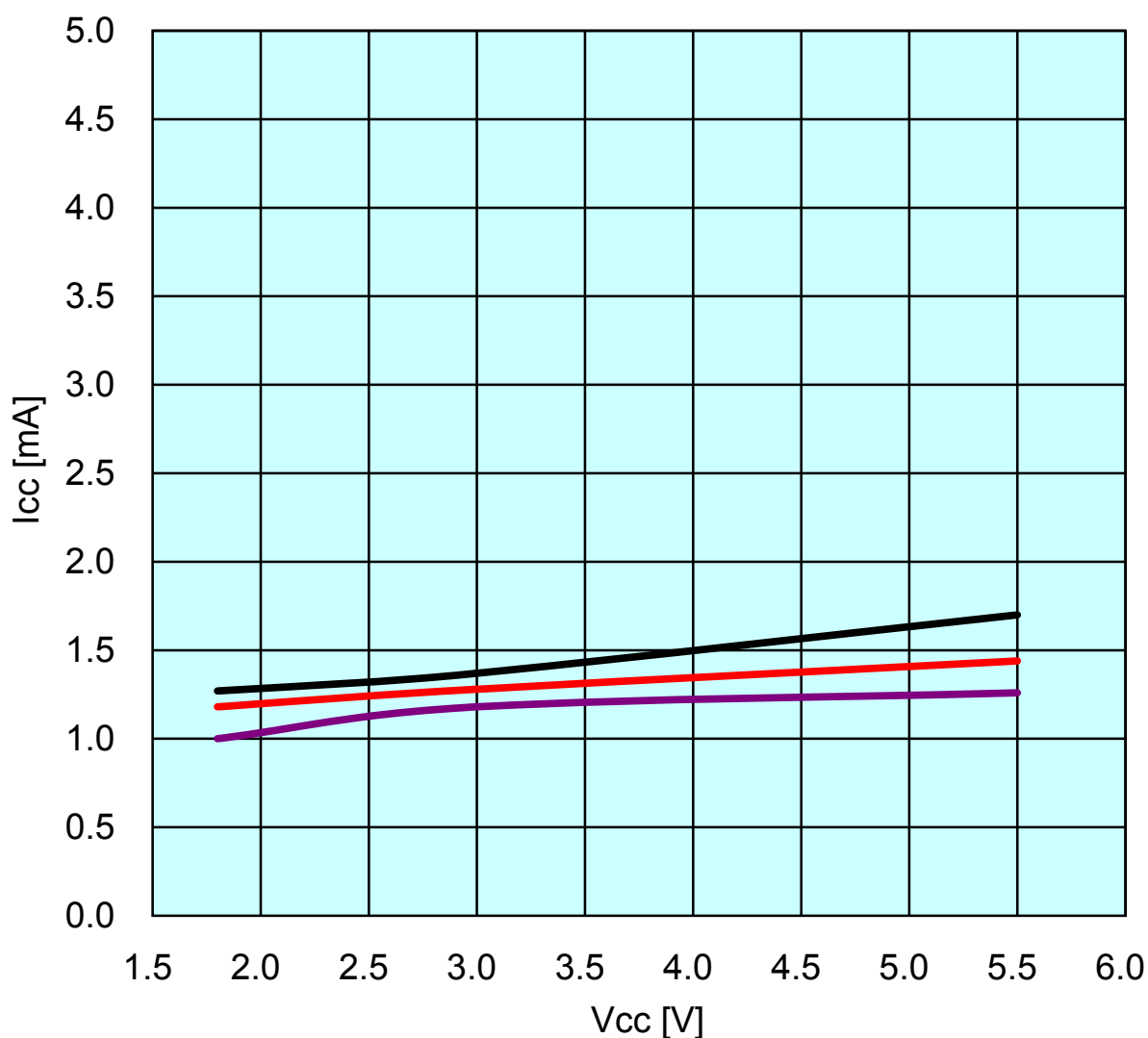
Low-speed on-chip oscillator on = 125 kHz

No division

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc} (High-speed clock mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN = 5 MHz (square wave)

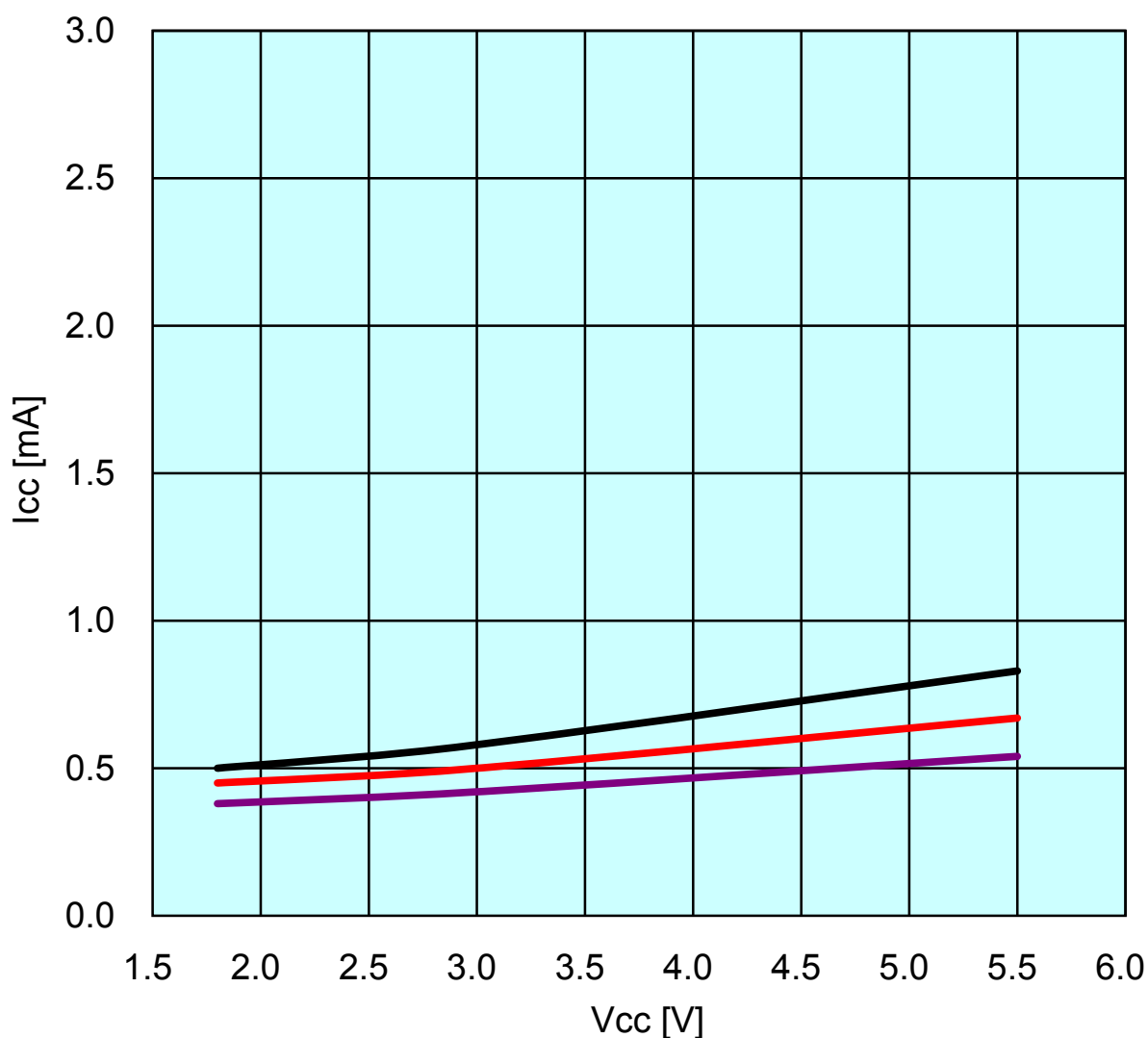
High-speed on-chip oscillator off

Low-speed on-chip oscillator on = 125 kHz

Divide-by-8

Sensor Control Unit on

— 85degreesC
— 25degreesC
— -40degreesC



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I_{cc} vs V_{cc}

(High-speed on-chip oscillator mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

High-speed on-chip oscillator on = 20MHz

Low-speed on-chip oscillator on = 125 kHz

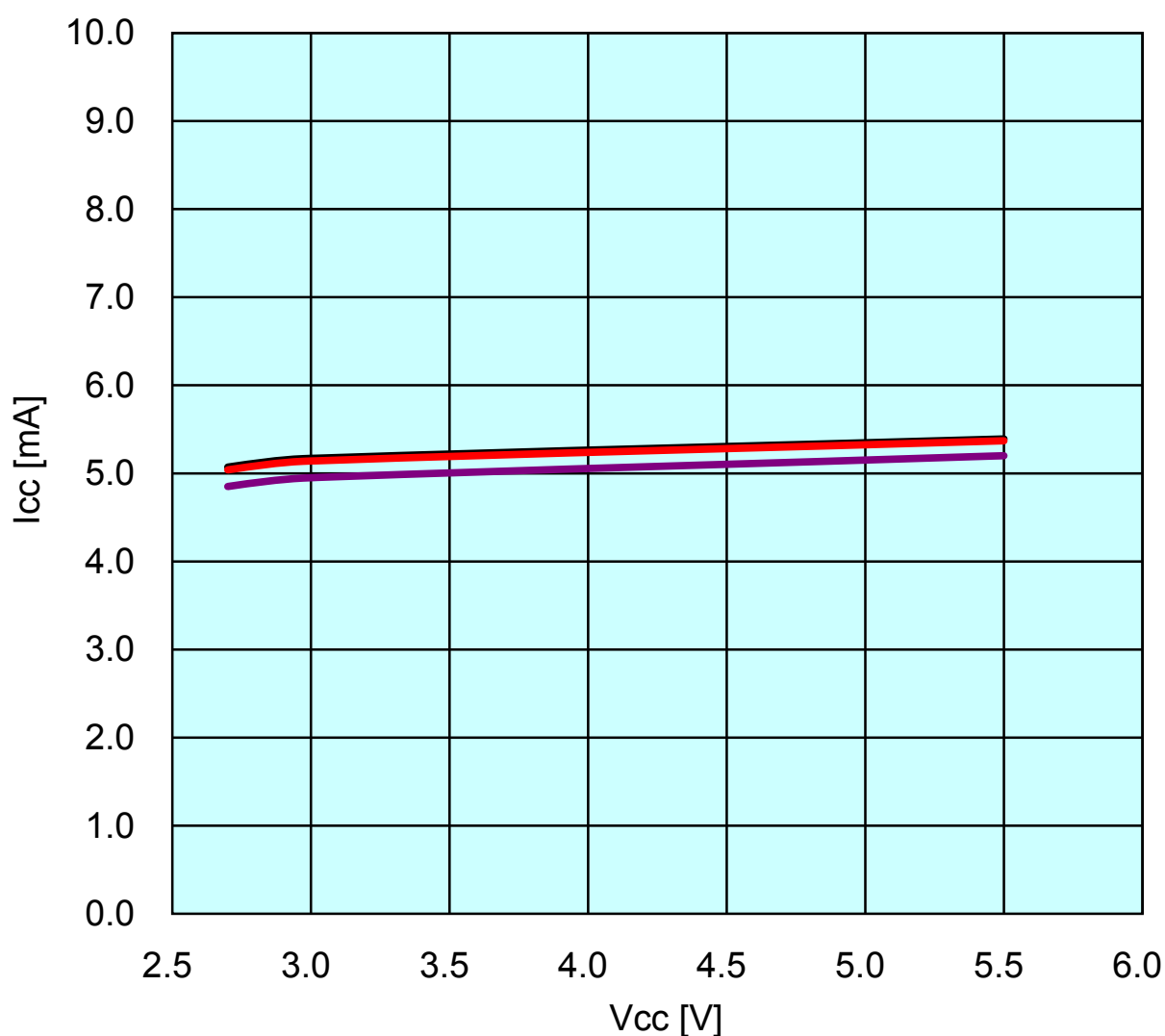
No division

Sensor Control Unit on

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc}

(High-speed on-chip oscillator mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

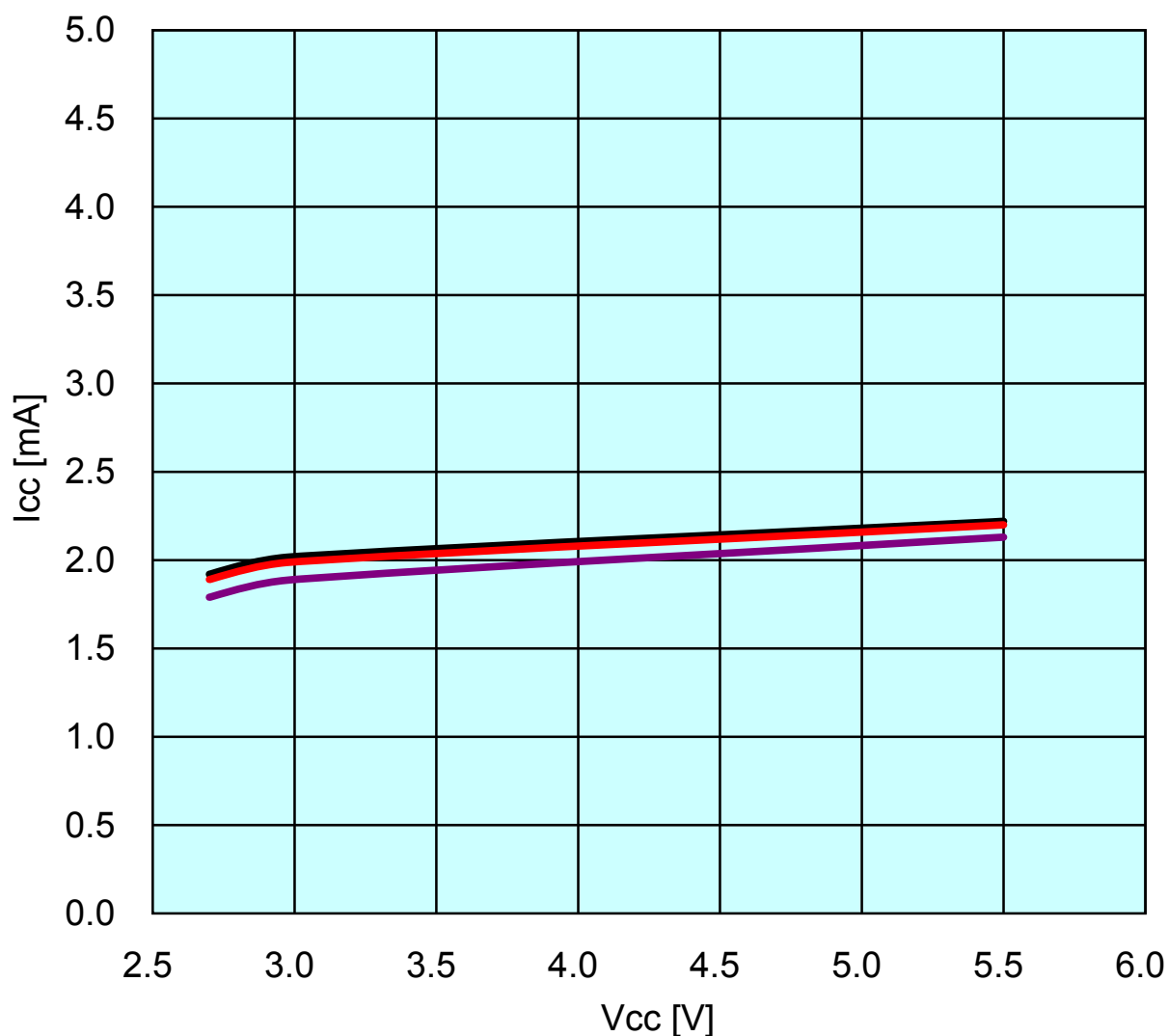
High-speed on-chip oscillator on = 20MHz

Low-speed on-chip oscillator on = 125 kHz

Divide-by-8

Sensor Control Unit on

— 85degreesC
— 25degreesC
— -40degreesC



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I_{cc} vs V_{cc}

(High-speed on-chip oscillator mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

High-speed on-chip oscillator on = 10MHz

Low-speed on-chip oscillator on = 125 kHz

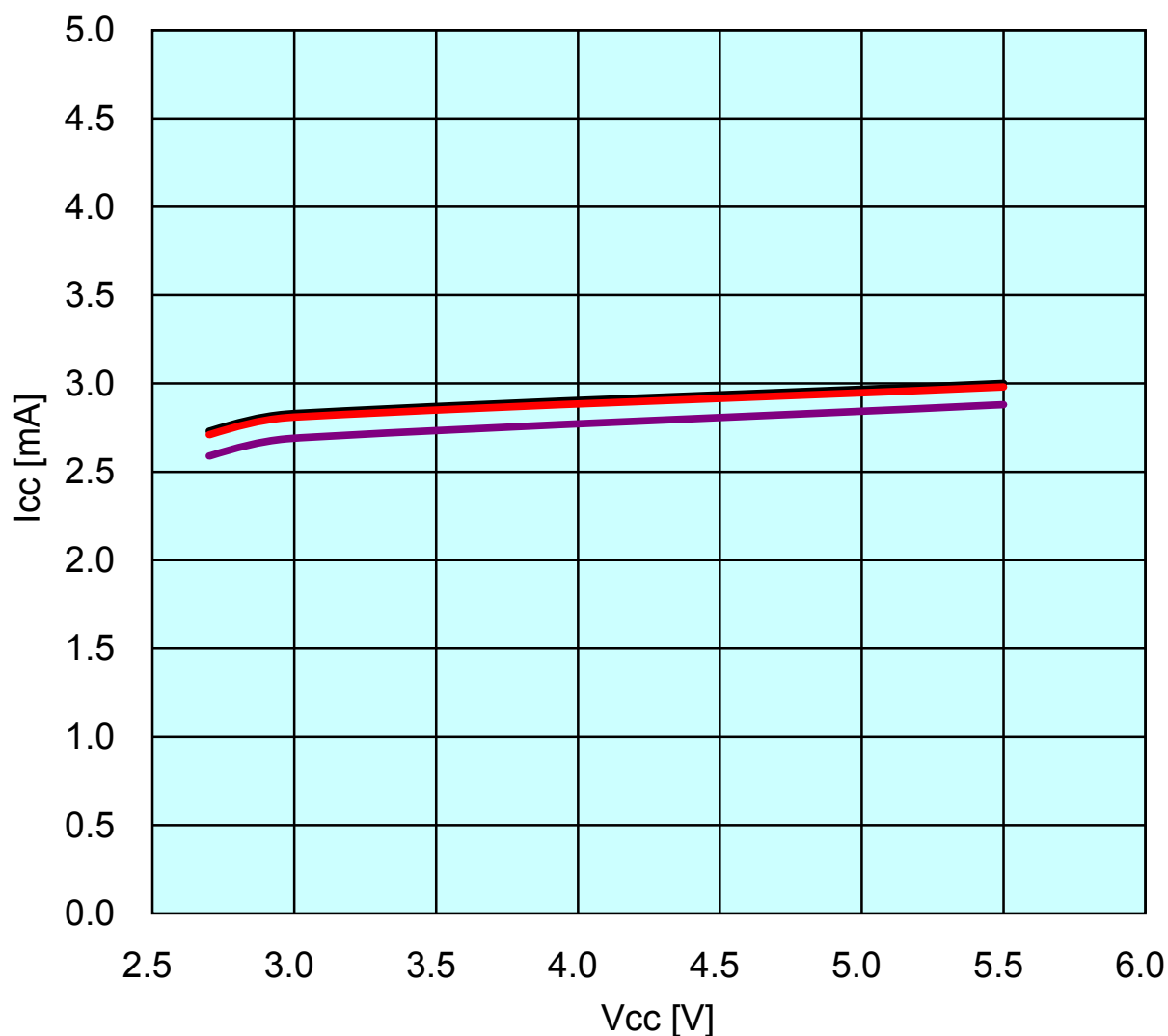
No division

Sensor Control Unit on

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc}

(High-speed on-chip oscillator mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

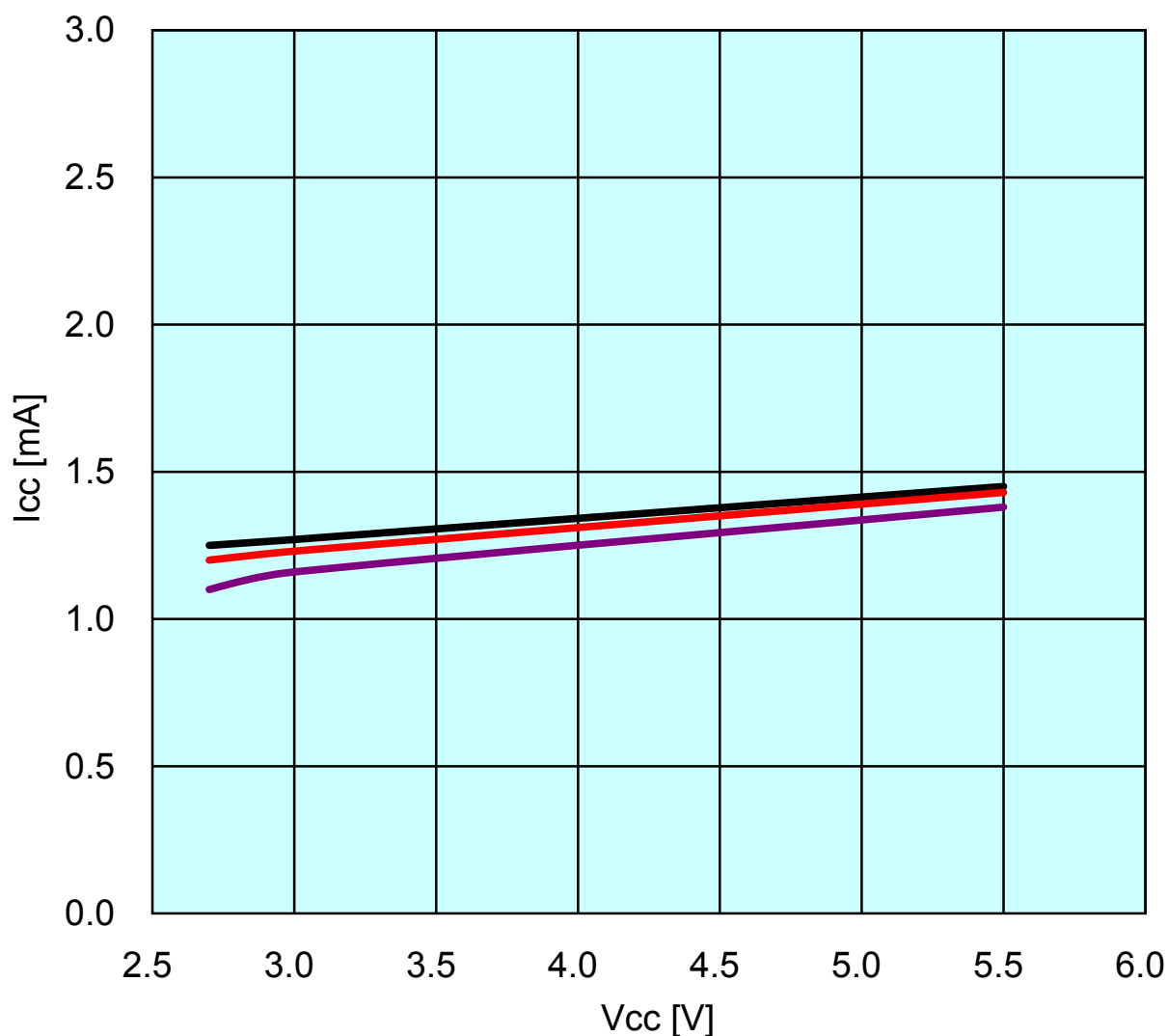
High-speed on-chip oscillator on = 10MHz

Low-speed on-chip oscillator on = 125 kHz

Divide-by-8

Sensor Control Unit on

— 85degreesC
— 25degreesC
— -40degreesC



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I_{cc} vs V_{cc}

(High-speed on-chip oscillator mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

High-speed on-chip oscillator on = 5MHz

Low-speed on-chip oscillator on = 125 kHz

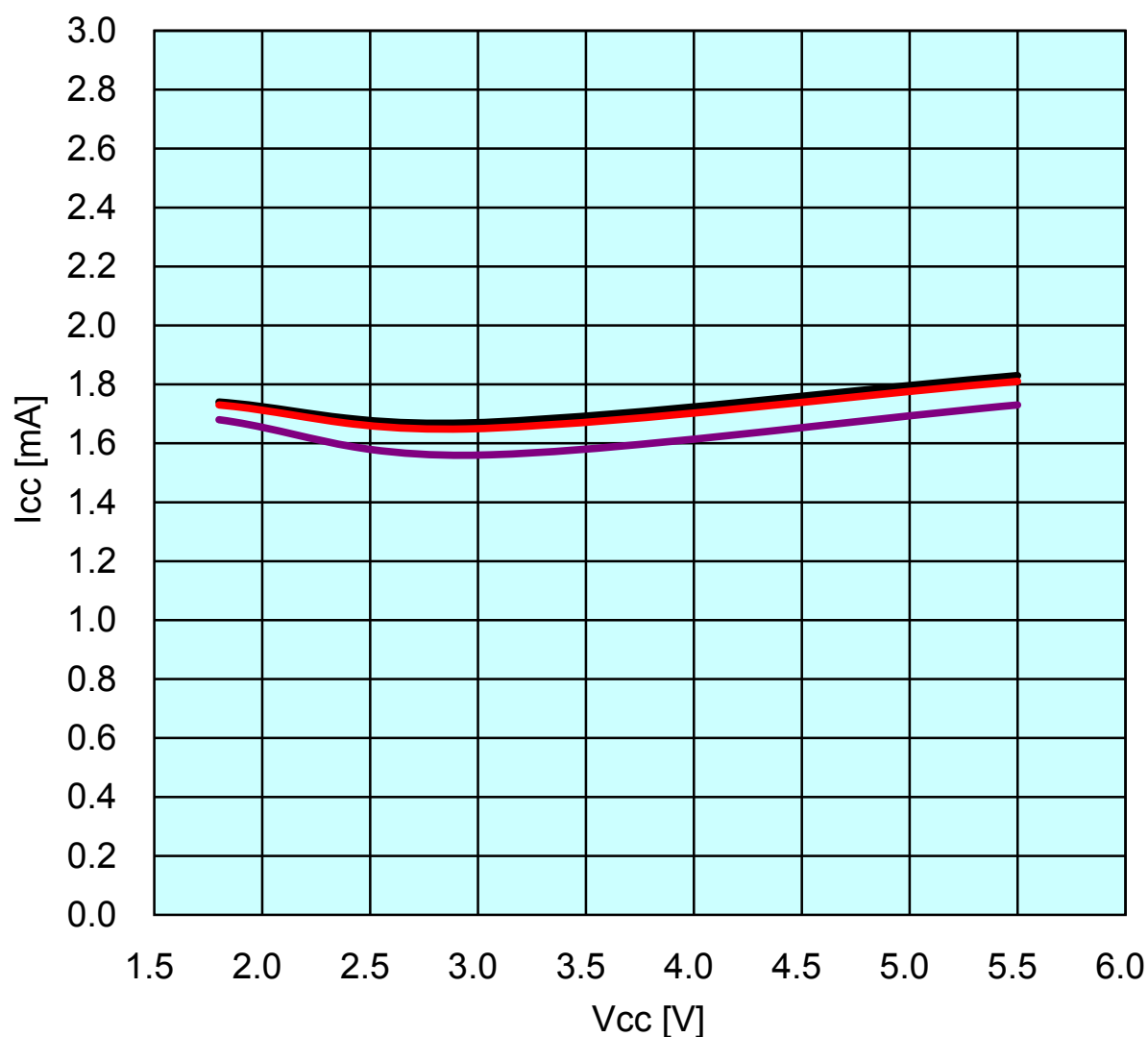
No division

Sensor Control Unit on

— 85degreesC

— 25degreesC

— -40degreesC



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I_{cc} vs V_{cc}

(High-speed on-chip oscillator mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

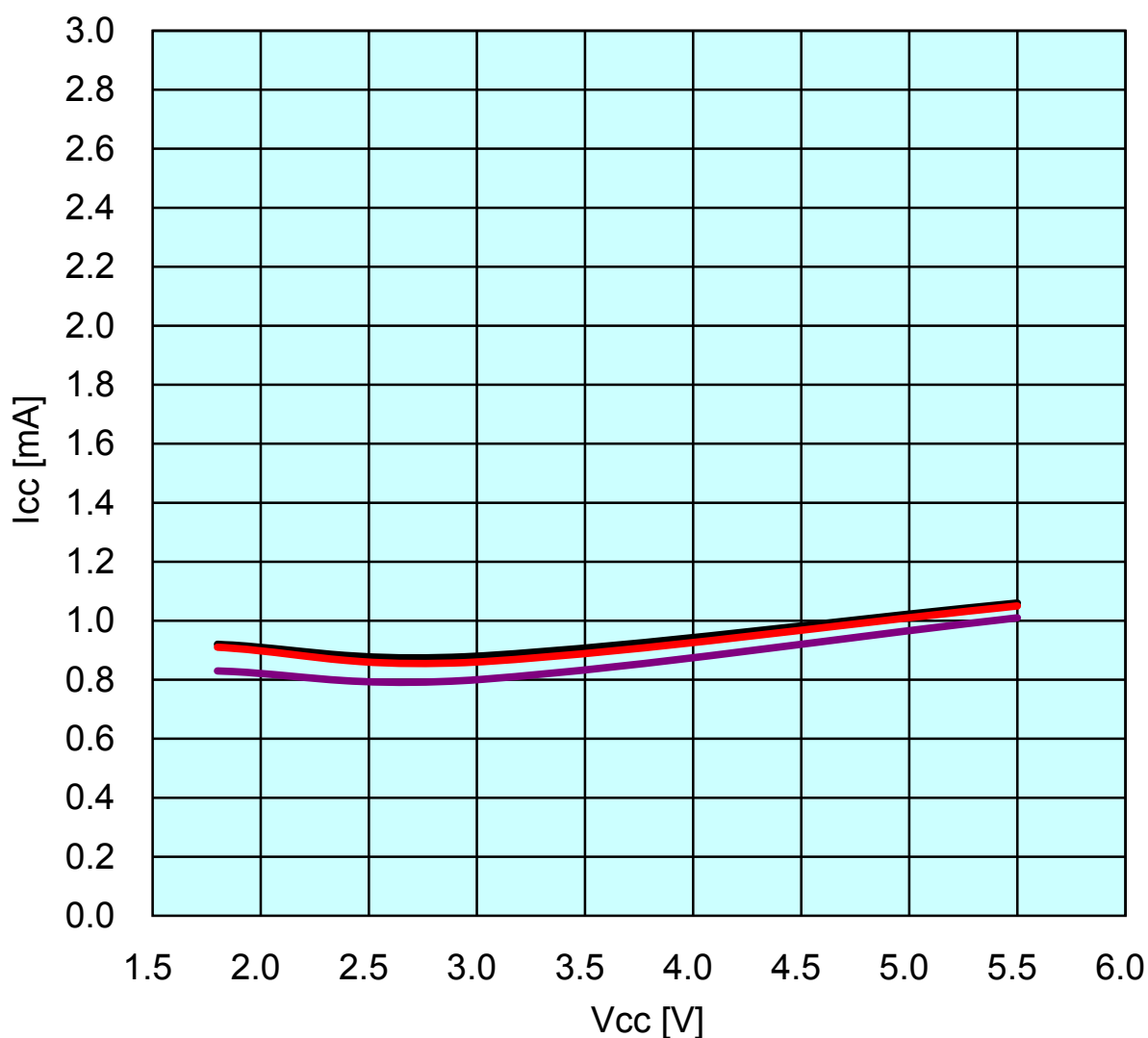
High-speed on-chip oscillator on = 5MHz

Low-speed on-chip oscillator on = 125 kHz

Divide-by-8

Sensor Control Unit on

— 85degreesC
— 25degreesC
— -40degreesC



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I_{cc} vs V_{cc}

(High-speed on-chip oscillator mode)

Prepared on Jun. 30, 2010

R8C/3JT Group

XIN clock off

High-speed on-chip oscillator on = 4MHz

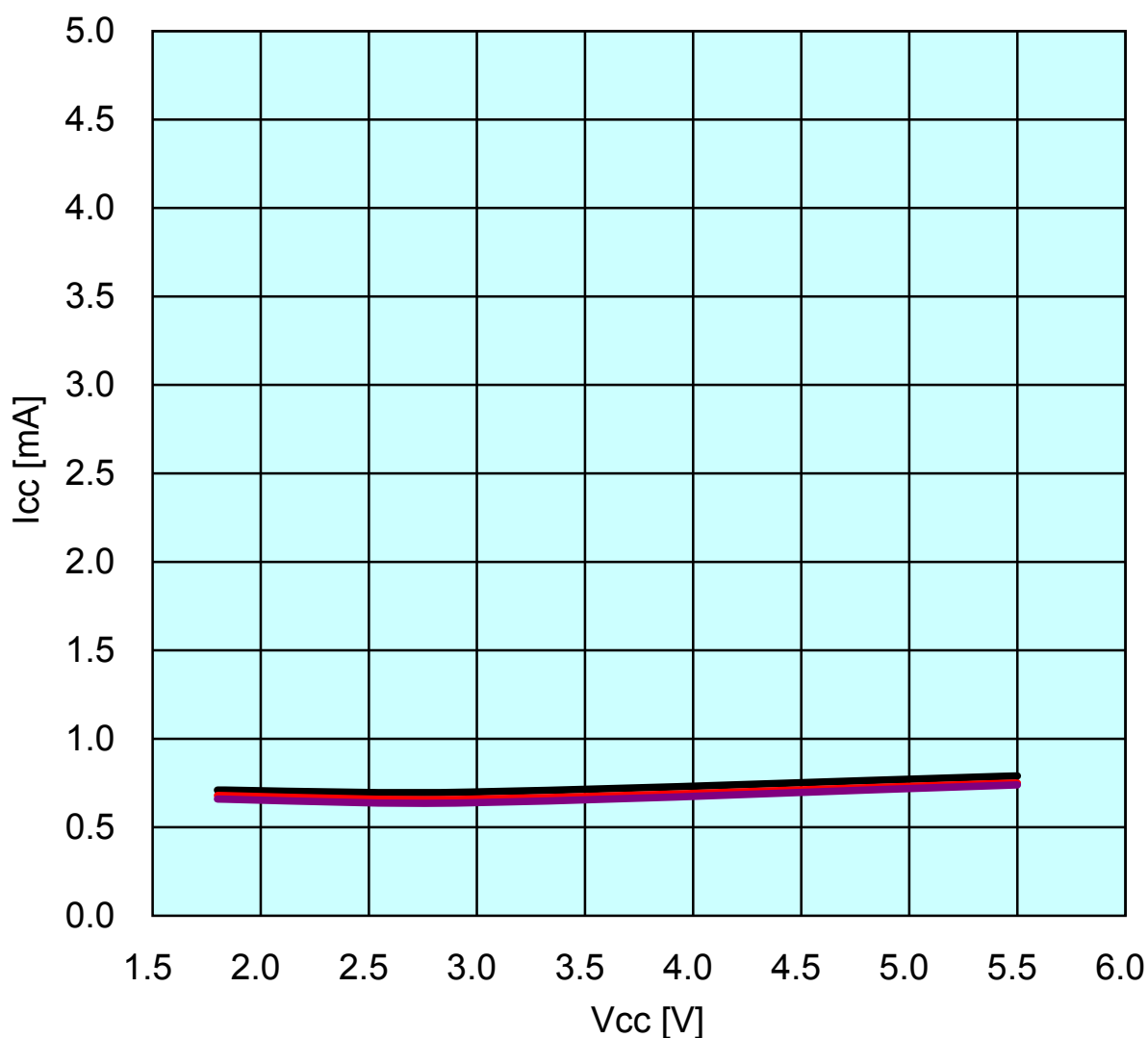
Low-speed on-chip oscillator on = 125 kHz

Divide-by-16

MSTTRC = 1

Sensor Control Unit on

— 85degreesC
— 25degreesC
— -40degreesC



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Alcc vs AVcc (during A/D conversion)

Prepared on Jun. 30, 2010

R8C/3JT Group

Topr = 25 degrees C

AVcc-Vss:0.1uF Vref-Vss:0.1uF

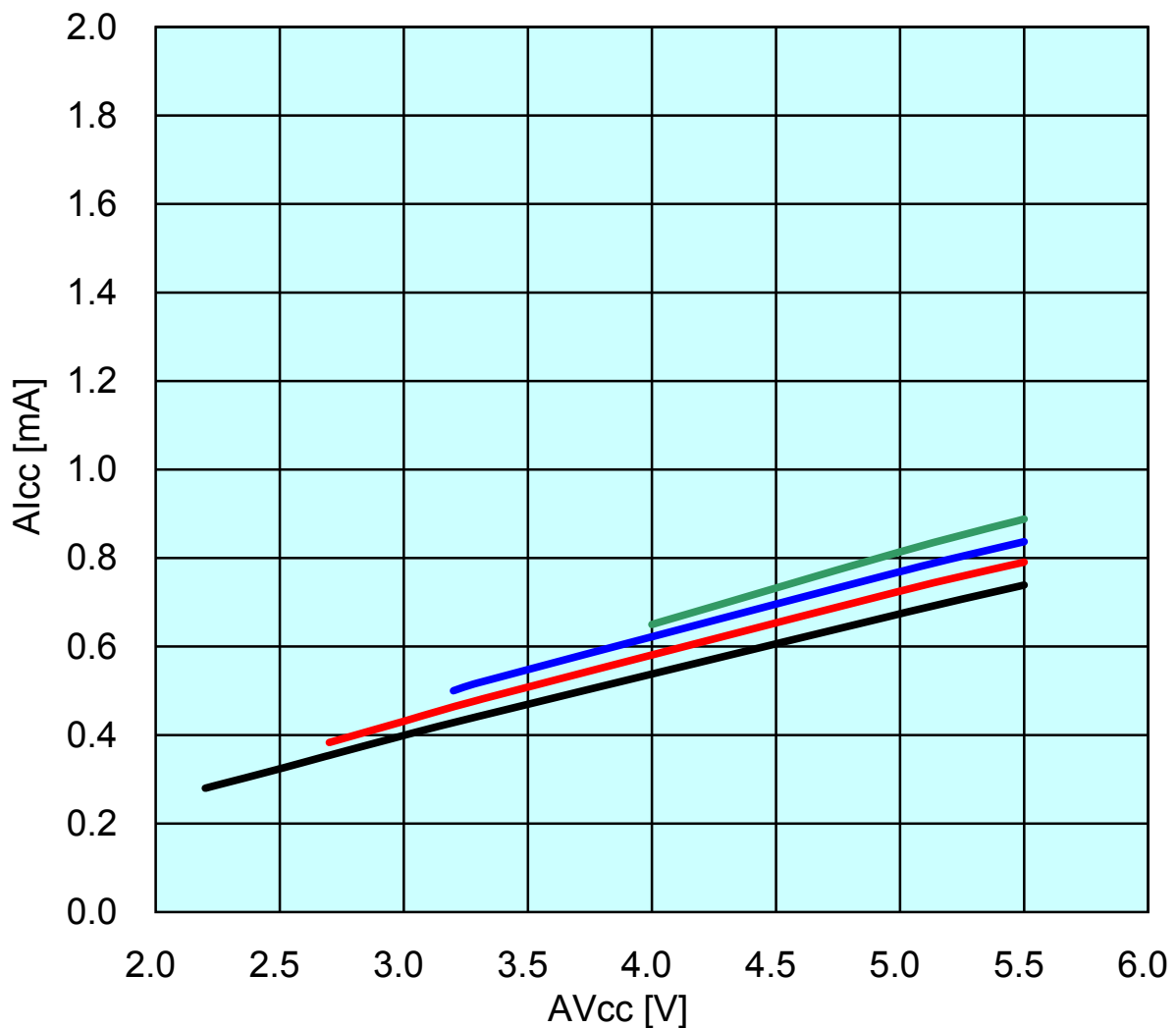
ANIN-Vss:0.1uF

10-bit mode

Repeat mode 0

The ICC amount of increase when analog to digital conversion operates

- XIN=5MHz, ϕ_{AD} =5MHz
- XIN=10MHz, ϕ_{AD} =10MHz
- XIN=16MHz, ϕ_{AD} =16MHz
- XIN=20MHz, ϕ_{AD} =20MHz



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