

Thermal Print Heads

For cards and hard media

BHC/BVC series

Type:	BHC-SS/DHC-SS Normal-head with a straight path and no heat history control
	BHC-HS High-speed with a straight path and three-stage LATCH heat history control
	BHC-FS High-speed with a straight path and five-stage LATCH heat history control
	BHC-SR/BVC-SR Narrow-width with a straight path and no heat history control
	BHC-FR High-speed and narrow-width with a straight path and five-stage LATCH heat history control
	BHC-WR Narrow-width with a straight path that supports binary data inputting for two-color printing

Issue date: July 2011

- All specifications are subject to change without notice.
 - Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
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Thermal Print Heads

For Cards and Hard Media

BHC4236SS

FEATURES

- Straight path
- Normal type with no heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media



PRODUCT SPECIFICATIONS

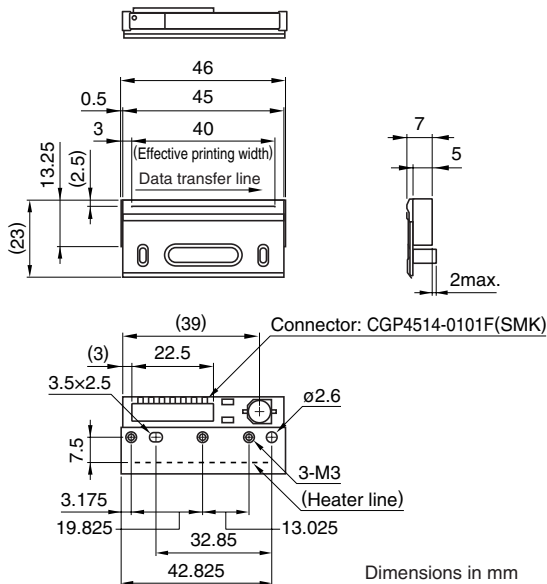
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	320
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	40
Heating element average resistance	(Ω)	800

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	4.5max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



Thermal Print Heads For Cards and Hard Media

DHC4274SS

FEATURES

- Straight path
- Normal type with no heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

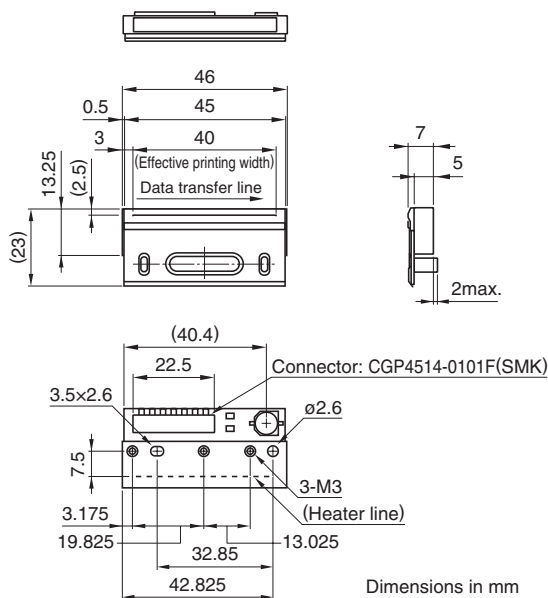
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	320
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	40
Heating element average resistance	(Ω)	800

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	5max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



Thermal Print Heads For Cards and Hard Media

BHC4215SS

FEATURES

- Straight path
- No heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

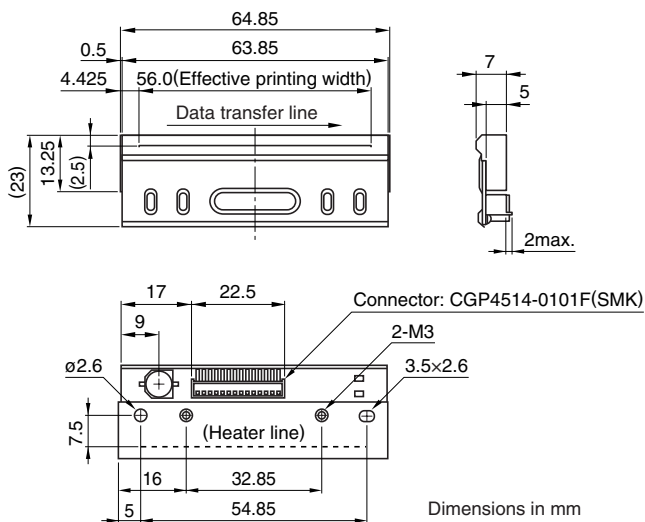
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	448
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	56
Heating element average resistance	(Ω)	970

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	5max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



Thermal Print Heads For Cards and Hard Media

BHC4264SS

FEATURES

- Straight path
- Normal type with no heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media



PRODUCT SPECIFICATIONS

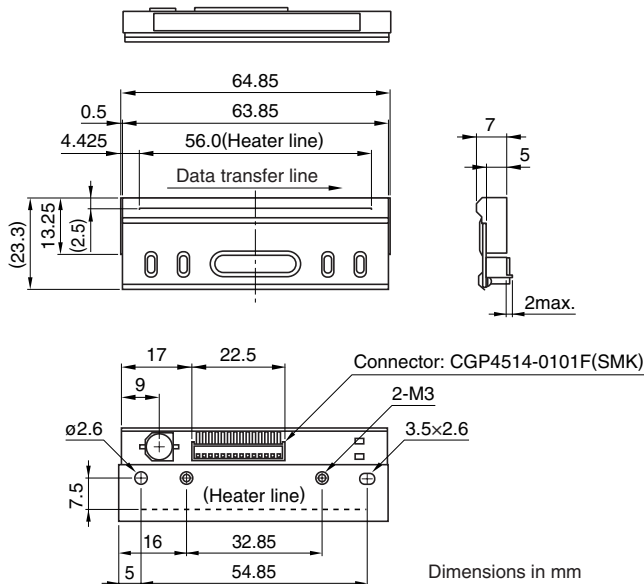
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	448
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	56
Heating element average resistance	(Ω)	970

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	5max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



Thermal Print Heads For Cards and Hard Media

BHC4266SS

FEATURES

- Straight path
- Normal type with no heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

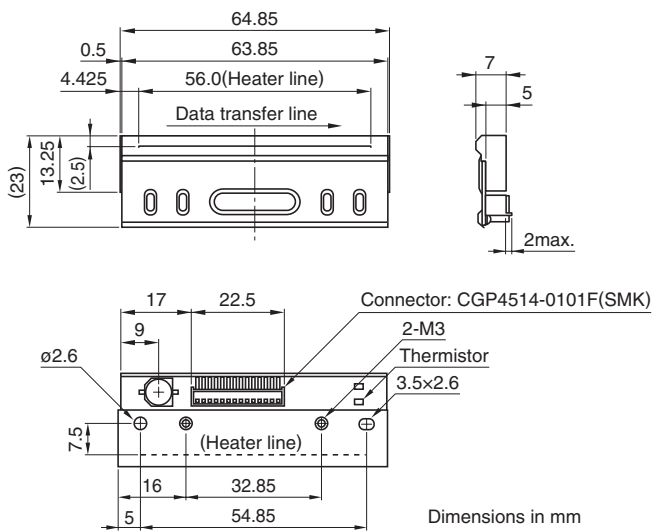
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	448
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	56
Heating element average resistance	(Ω)	450

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	5max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



Thermal Print Heads For Cards and Hard Media

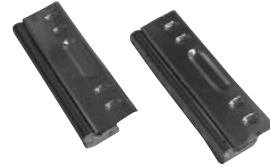
BHC5212SS

FEATURES

- Straight path
- Normal type with no heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media



PRODUCT SPECIFICATIONS

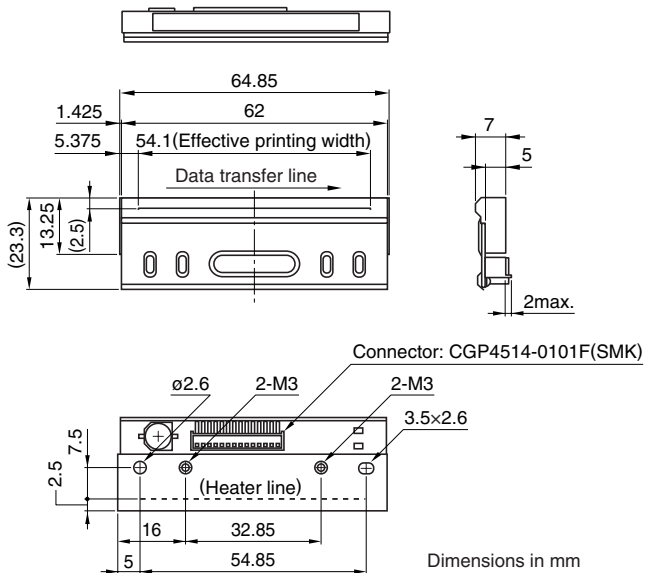
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	640
Dot density	(dots/mm)	11.8
	(DPI)	300
Length of heating element array (effective)	(mm)	54
Heating element average resistance	(Ω)	1280

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	10max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



Thermal Print Heads For Cards and Hard Media

BHC5202SS

FEATURES

- Straight path
- No heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

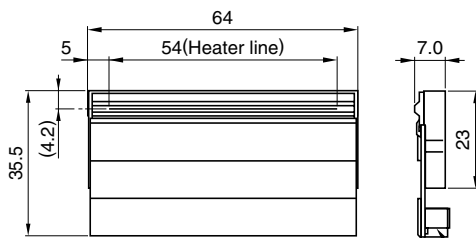
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	640
Dot density	(dots/mm)	11.8
	(DPI)	300
Length of heating element array (effective)	(mm)	54
Heating element average resistance	(Ω)	2000

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	4.5max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



Connector: CGP4514-0101F(SMK)
CGP4508-0101F(SMK)

Dimensions in mm

Thermal Print Heads For Cards and Hard Media

DHC5222SS

FEATURES

- Straight path
- Normal type with no heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

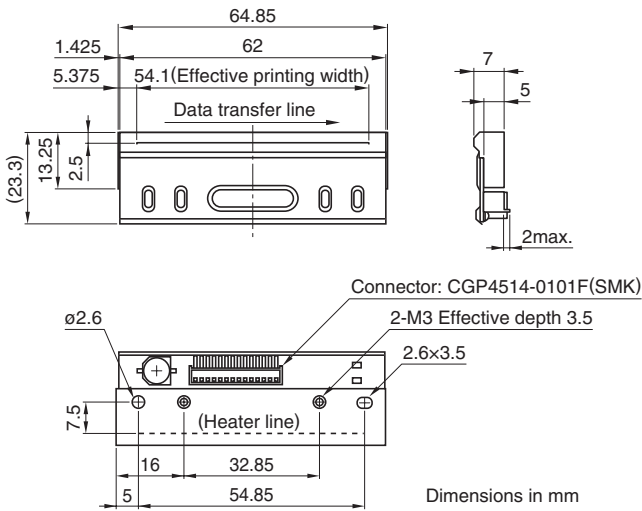
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	640
Dot density	(dots/mm)	11.8
	(DPI)	300
Length of heating element array (effective)	(mm)	54.1
Heating element average resistance	(Ω)	1400

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	10max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.

Thermal Print Heads For Cards and Hard Media

BHC5501SS

FEATURES

- Straight path
- No heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

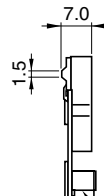
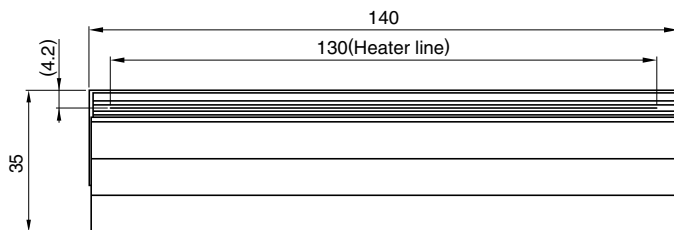
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	1536
Dot density	(dots/mm)	11.8
	(DPI)	300
Length of heating element array (effective)	(mm)	130
Heating element average resistance	(Ω)	1400

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	4.5max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



Connector: CGP4514-0101F(SMK)
CGP4508-0101F(SMK)

Dimensions in mm

Thermal Print Heads For Cards and Hard Media

BHC5502HS

FEATURES

- Straight path
- High-speed type with three-stage LATCH heat history control [HS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media



PRODUCT SPECIFICATIONS

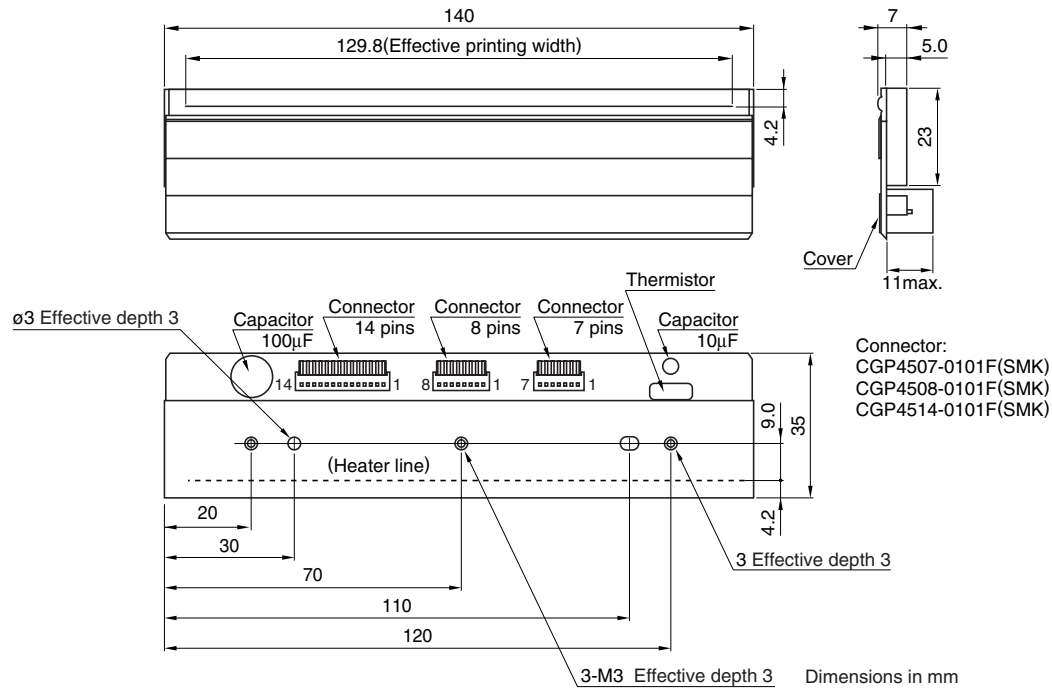
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	1536
Dot density	(dots/mm)	11.8
	(DPI)	300.0
Length of heating element array (effective)	(mm)	129.8
Heating element average resistance	(Ω)	1400

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	5max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.

Thermal Print Head For Cards and Hard Media

BHC5911HS

FEATURES

- Straight path
- High-speed type with three-stage LATCH heat history control [HS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

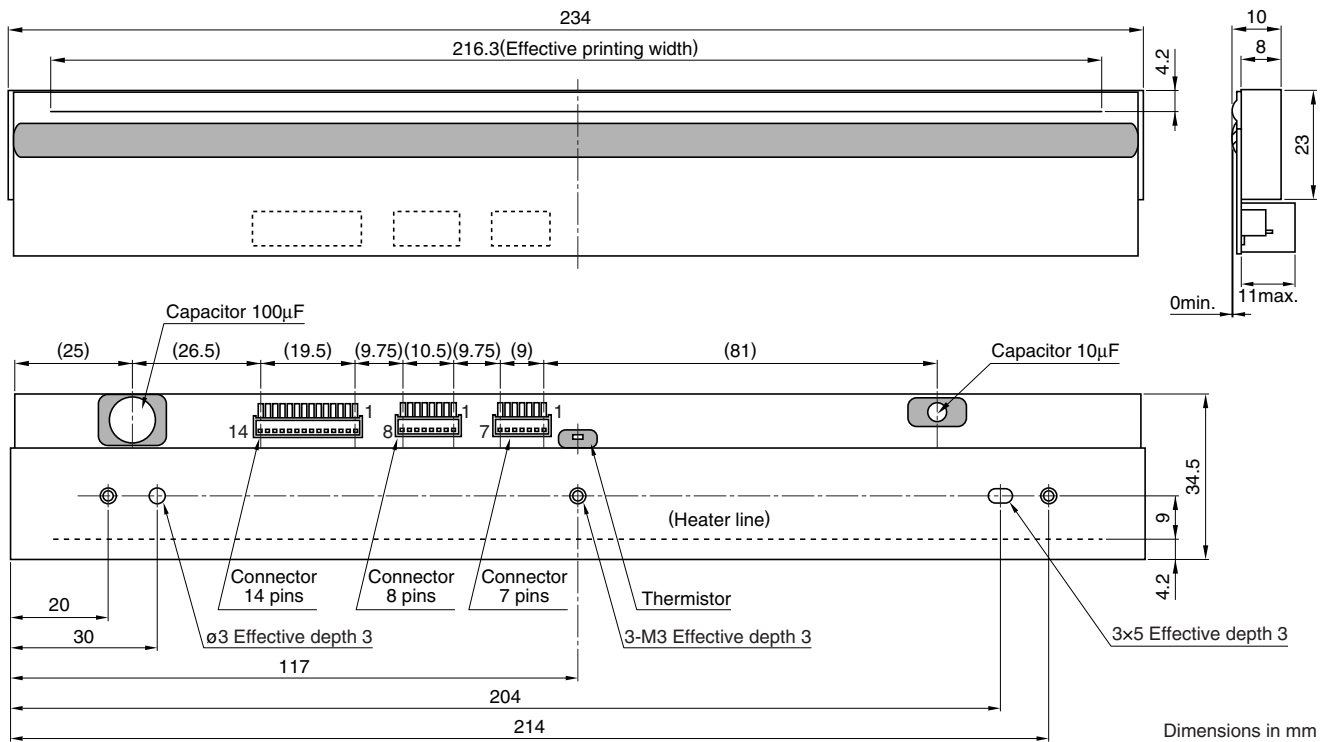
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	2560
Dot density	(dots/mm)	11.8
	(DPI)	300
Length of heating element array (effective)	(mm)	216.3
Heating element average resistance	(Ω)	1500

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	5max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.

Thermal Print Heads For Cards and Hard Media

BHC5506FS

FEATURES

- Straight path
- High-speed type with five-stage LATCH heat history control [FS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

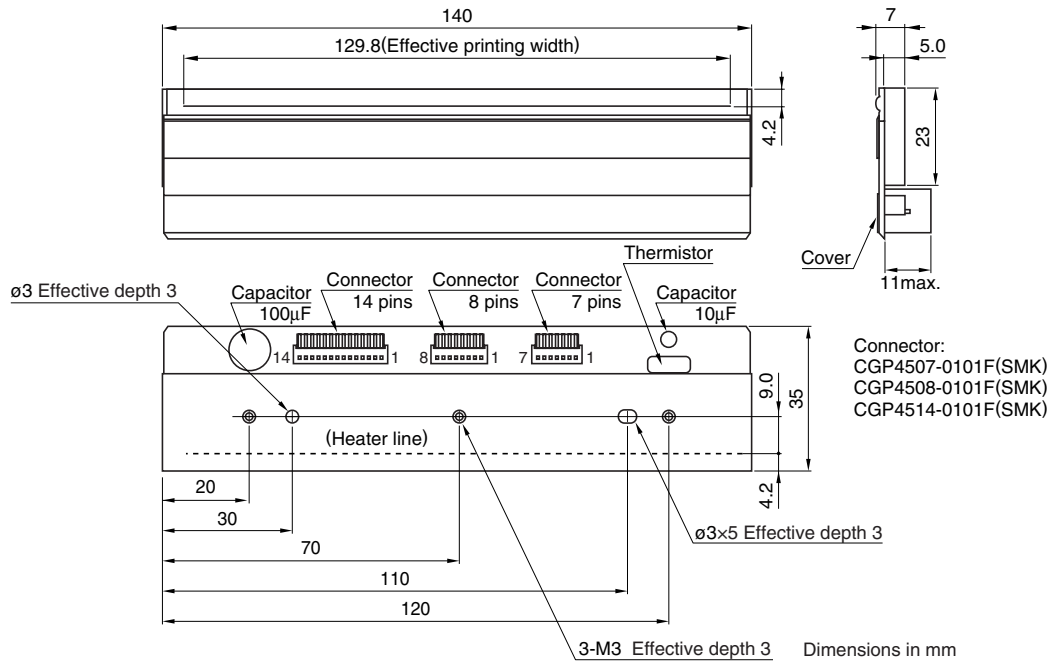
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	1536
Dot density	(dots/mm)	11.8
	(DPI)	300
Length of heating element array (effective)	(mm)	129.8
Heating element average resistance	(Ω)	1400

DRIVE CONDITIONS

Data transfer frequency	(MHz)	8max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.

Thermal Print Heads For Cards and Hard Media

BHC4245SR

FEATURES

- Straight path
- Narrow-width type with no heat history control type [SR type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media



PRODUCT SPECIFICATIONS

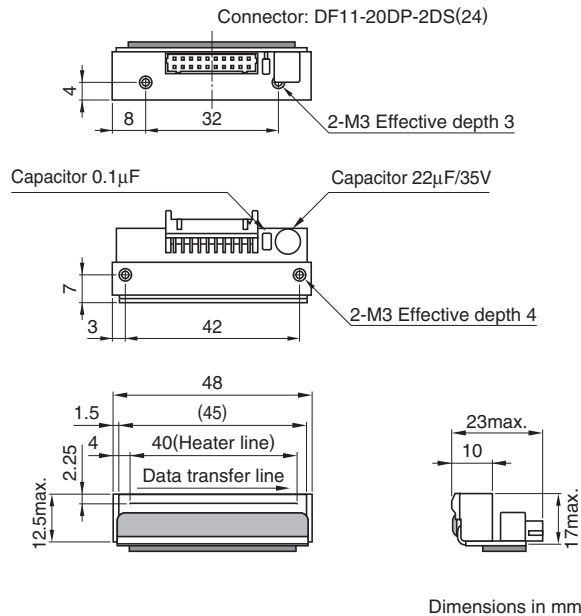
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	320
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	40
Heating element average resistance	(Ω)	800

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	5max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.

Thermal Print Heads For Cards and Hard Media

BHC4229SR

FEATURES

- Straight path
- Narrow-width type with no heat history control type [SR type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

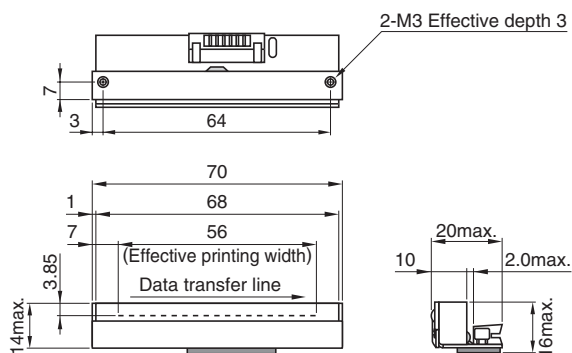
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	448
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	56
Heating element average resistance	(Ω)	450

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	5max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



Dimensions in mm

Thermal Print Heads For Cards and Hard Media

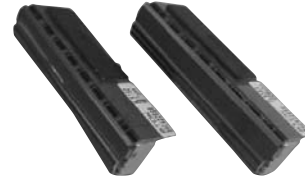
BHC4226SR

FEATURES

- Straight path
- Narrow-width type with no heat history control type [SR type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media



PRODUCT SPECIFICATIONS

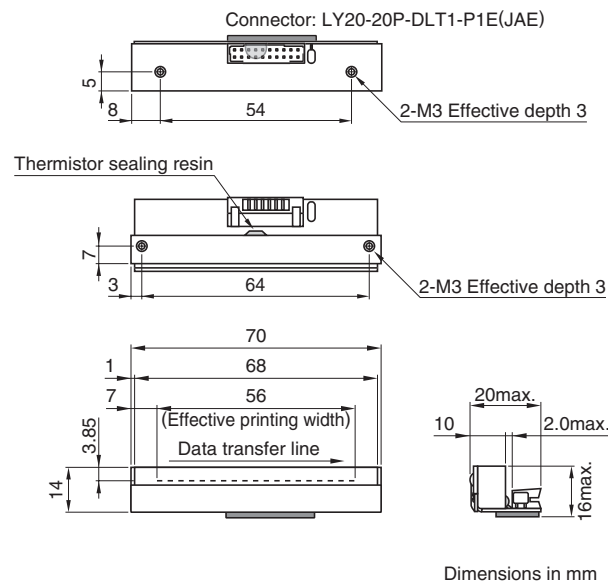
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	448
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	56
Heating element average resistance	(Ω)	970

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	6max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



Thermal Print Heads For Cards and Hard Media

BHC4228FR

FEATURES

- Straight path
- High-speed type for narrow-width printing with five-stage LATCH heat history control [FR type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

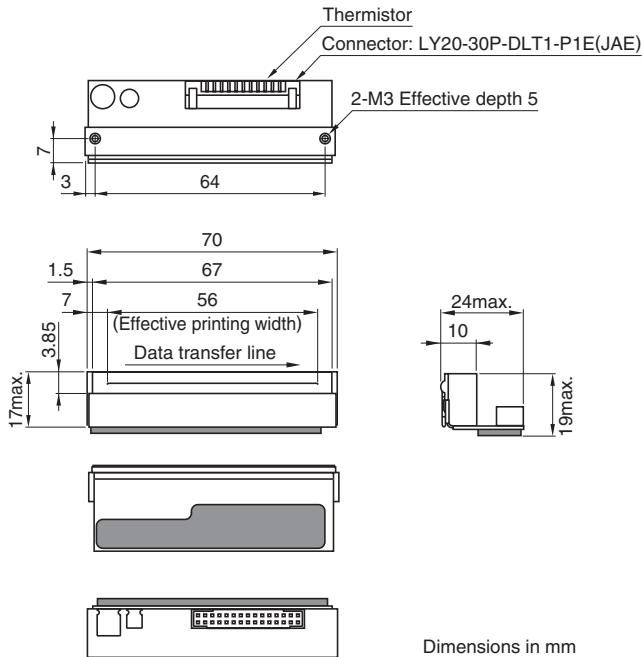
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	448
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	56
Heating element average resistance	(Ω)	450
Glaze type		Partial glaze

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	8max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.

Thermal Print Heads For Cards and Hard Media

BHC4252FR

FEATURES

- Straight path
- High-speed type for narrow-width printing with five-stage LATCH heat history control [FR type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

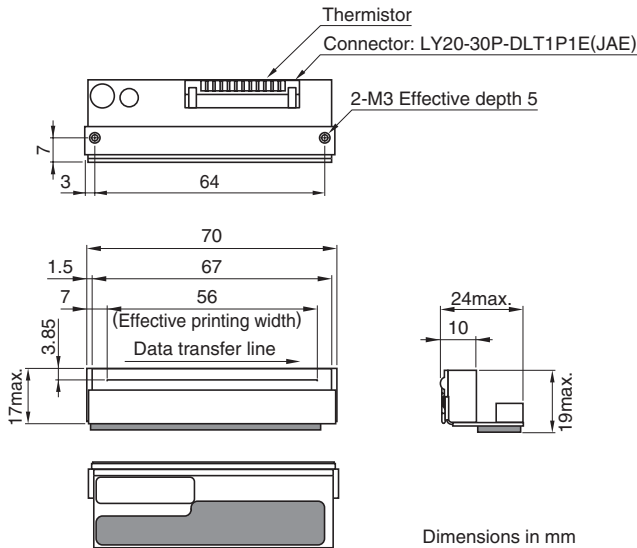
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	448
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	56
Heating element average resistance	(Ω)	800

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	8max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.

Thermal Print Heads

For Cards and Hard Media

BHC4240FR

FEATURES

- Straight path
- High-speed type for narrow-width printing with five-stage LATCH heat history control [FR type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

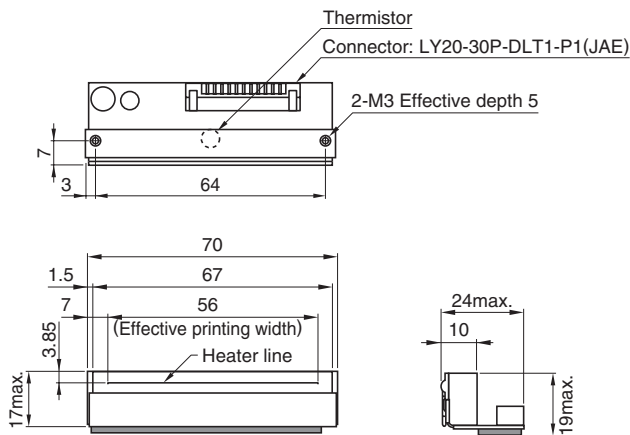
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	448
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	56
Heating element average resistance	(Ω)	800

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	8max.
Driver power supply	(V)	4.75 to 5.25

SHAPES AND DIMENSIONS



Thermal Print Heads For Cards and Hard Media

BHC4219WR

FEATURES

- Straight path
- WR type supporting binary data input for two-color and narrow-width printing
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

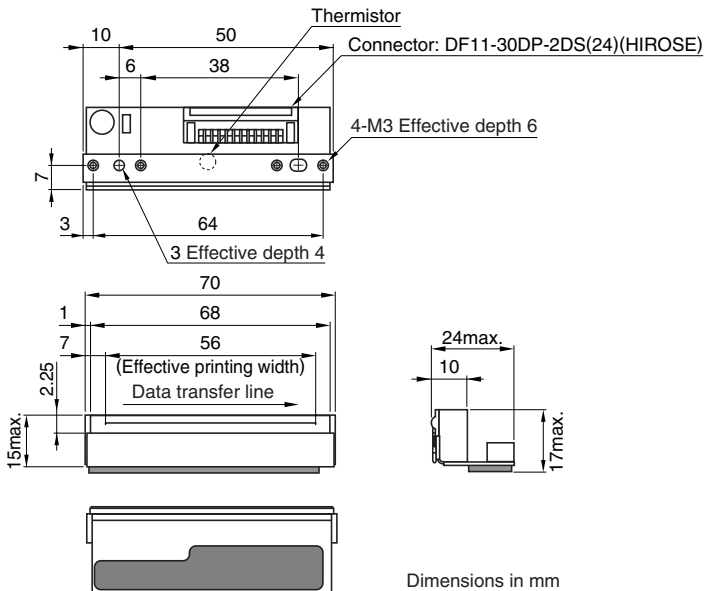
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	448
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	56
Heating element average resistance	(Ω)	450

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	8max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.

Thermal Print Heads For Cards and Hard Media

BHC4277WR

FEATURES

- Straight path
- WR type supporting binary data input for two-color and narrow-width printing
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media

PRODUCT SPECIFICATIONS

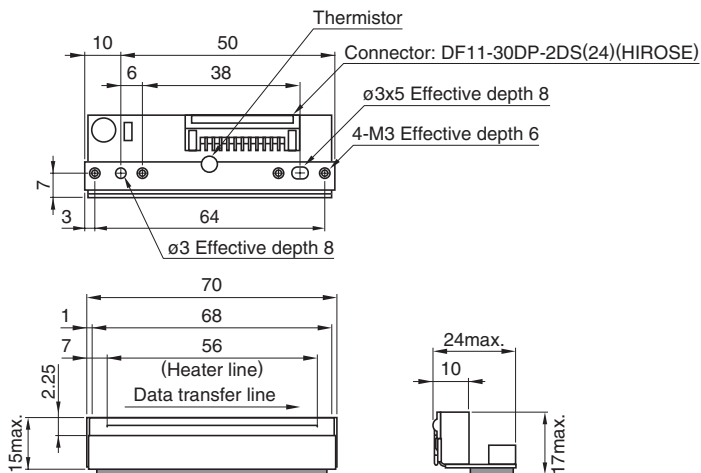
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	448
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	56
Heating element average resistance	(Ω)	800

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	8max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



Dimensions in mm

Thermal Print Heads For Cards and Hard Media

BHC6201WR

FEATURES

- Straight path
- WR type supporting binary data input for two-color and narrow-width printing
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Card printers
- Printers for hard media



PRODUCT SPECIFICATIONS

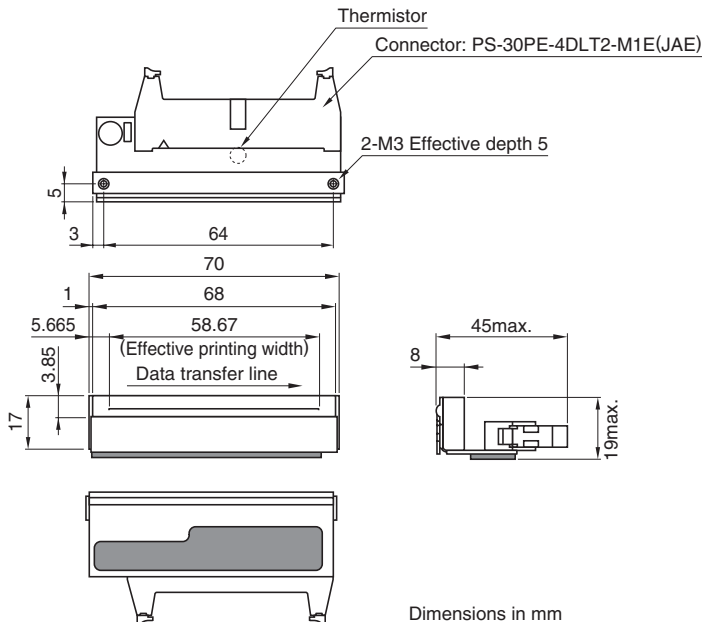
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	704
Dot density	(dots/mm)	12
	(DPI)	305
Length of heating element array (effective)	(mm)	58.67
Heating element average resistance	(Ω)	1500

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	5max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.