

Thermal Print Heads

New products

Type:	LHE-SU/BHE-SU/BVE-SU/BHP-FU/LHP-SU [Light] series supports low- to medium-speed printing for label printers, etc.
	BHC-SR/BHC-SE/BVC-SE/BHC-HE [Slim] series small and compact new end-face head
	AHP-HS/AHP-WS [SESTRO] series high ESD characteristics
	DHP-SU/GHP-SS "V" series highly versatile for circuit design and heat history control with no heat history control
	DHP-VS "V" series highly versatile for circuit design and heat history control with heat history control

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.
-

Thermal Print Heads

For Barcode and Label Printers

LHE4250SU

FEATURES

- Light series supporting low- to medium-speed printing
- No heat history control type

APPLICATIONS

- Barcode and label printers
- Ticket-vending machines
- POS terminals

PRODUCT SPECIFICATIONS

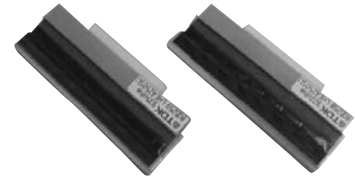
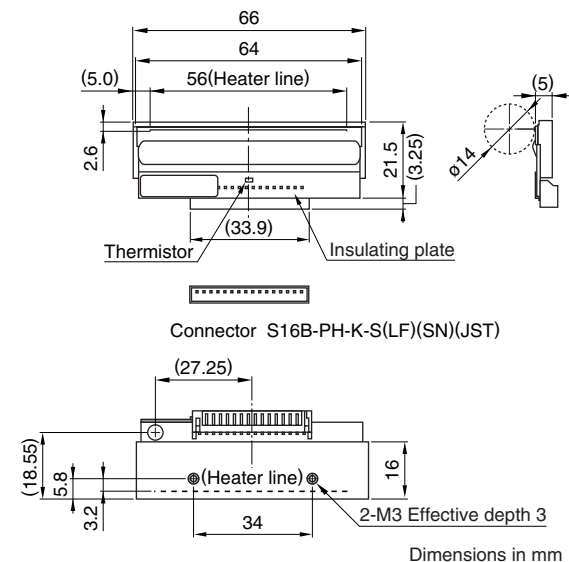
HEATING ELEMENT SPECIFICATIONS

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)	960
Glaze type		Partial glaze

DRIVE CONDITIONS

Data transfer frequency	(MHz)	8max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



Thermal Print Heads

For Barcode and Label Printers

BHE4269SU

FEATURES

- Light series supporting low- to medium-speed printing
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Barcode and label printers
- Ticket-vending machines
- POS terminals

PRODUCT SPECIFICATIONS

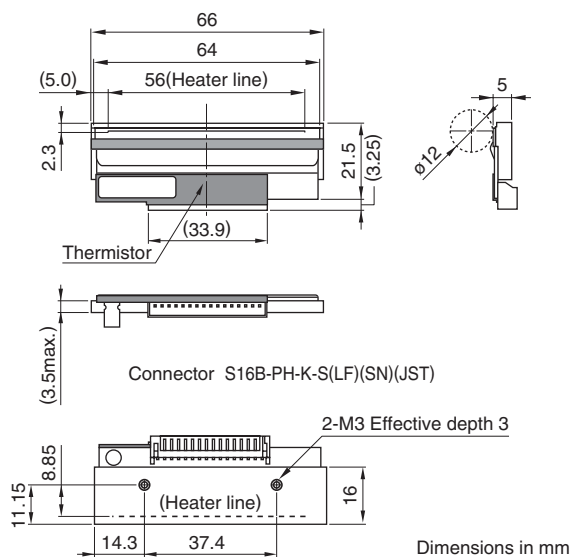
HEATING ELEMENT SPECIFICATIONS

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)	960

DRIVE CONDITIONS

Applied platen diameter	(mm)	14(10 to 14)max.
Data transfer frequency	(MHz)	8max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



Thermal Print Heads For Barcode and Label Printers

DHP4353SU

FEATURES

- Light series supporting low- to medium-speed printing
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Barcode and label printers
- Ticket-vending machines
- POS terminals

PRODUCT SPECIFICATIONS

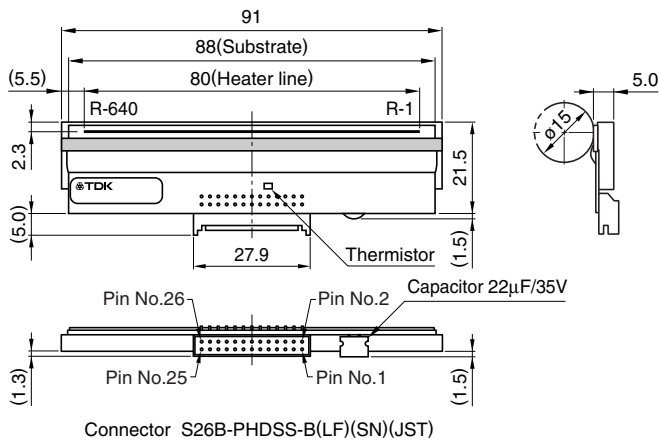
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	640
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	80
Heating element average resistance	(Ω)	800

DRIVE CONDITIONS

Driver power supply(V)	Data transfer frequency(MHz)
4.5 to 5.5	16max.
3.0 to 3.6	10max.

SHAPES AND DIMENSIONS



Thermal Print Heads For Large Format Printers

LHP4A04SU

FEATURES

- Light series supporting low- to medium-speed printing
- Can be used for large format printers
- No heat history control type

APPLICATIONS

- Large format printers

PRODUCT SPECIFICATIONS

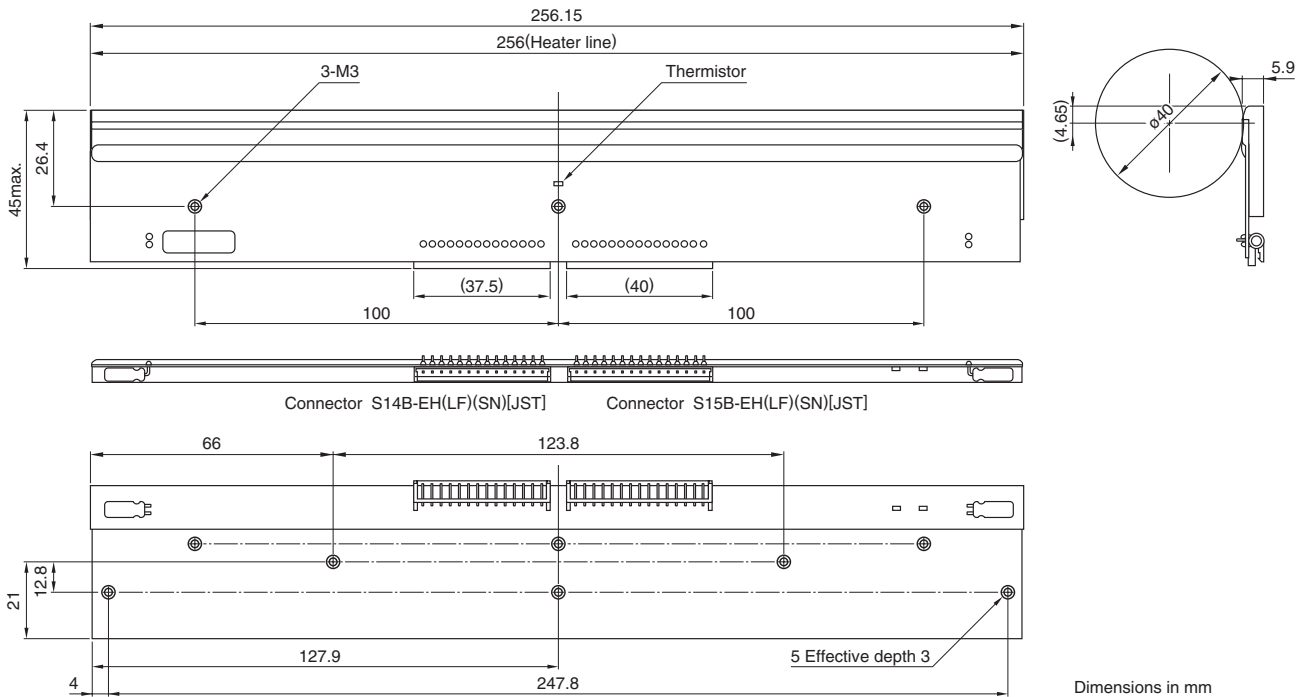
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	2048
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	256
Heating element average resistance	(Ω)	2400

DRIVE CONDITIONS

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

BVE5216SU

FEATURES

- Light series supporting low- to medium-speed printing
- No heat history control type

APPLICATIONS

- Card printers
- Printers for hard media



PRODUCT SPECIFICATIONS

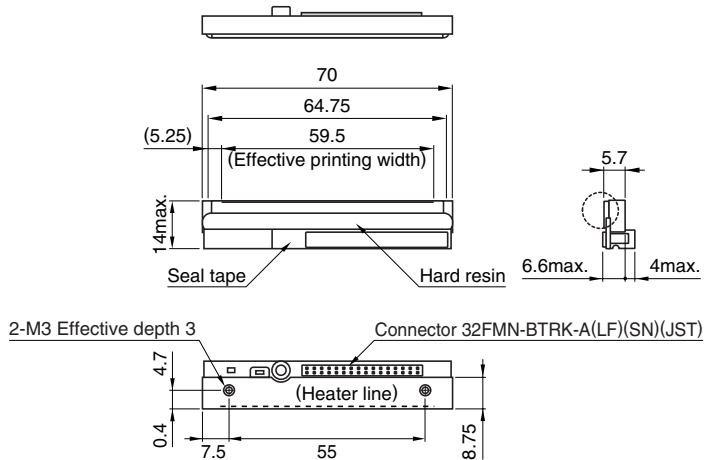
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	704
Dot density	(dots/mm)	11.8
	(DPI)	300
Length of heating element array (effective)	(mm)	59.5
Heating element average resistance	(Ω)	3000

DRIVE CONDITIONS

Applied platen diameter	(mm)	16max.
Data transfer frequency	(MHz)	12max.
Driver power supply	(V)	3.3 or 5.0

SHAPES AND DIMENSIONS



Thermal Print Heads For Barcode and Label Printers

BHP6321FU

FEATURES

- Light series supporting low- to medium-speed printing
- High-speed type with five-stage LATCH heat history control
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Barcode and label printers
- Ticket-vending machines
- POS terminals

PRODUCT SPECIFICATIONS

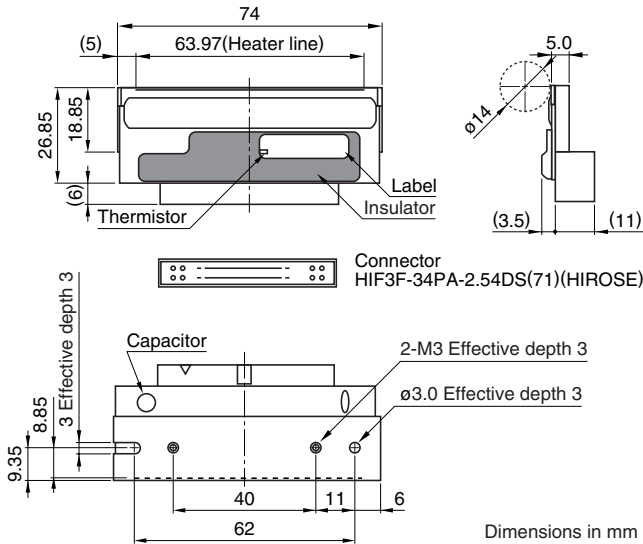
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	768
Dot density	(dots/mm)	12
	(DPI)	305
Length of heating element array (effective)	(mm)	63.97
Heating element average resistance	(Ω)	1500
Glaze type		Partial glaze

DRIVE CONDITIONS

Applied platen diameter	(mm)	ø14max.
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 Barcode and Label Printers

BHC4286SE

FEATURES

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

APPLICATIONS

- Barcode and label printers
- Bank ATMs
- Amusements
- Ticket-vending machines
- POS terminals

PRODUCT SPECIFICATIONS

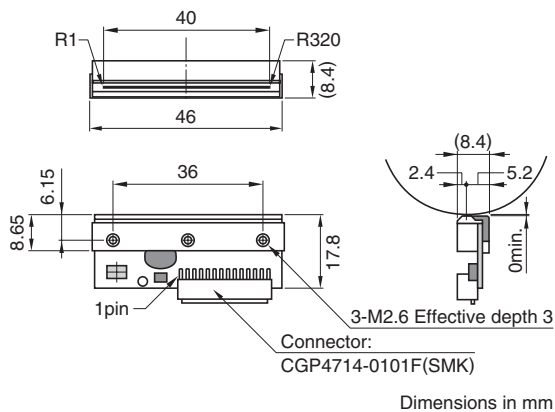
HEATING ELEMENT SPECIFICATIONS

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)	$\phi 20$ max.
Data transfer frequency	(MHz)	5max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



Thermal Print Heads

Printer with Card Reader/Writer installed

BHC4267SR

FEATURES

- Slim series with a light and compact end-face head
- No heat history control type
- Straight path
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Printers with a card reader/writer installed
- Rewrite printers
- Other thermal printers which require a straight path

PRODUCT SPECIFICATIONS

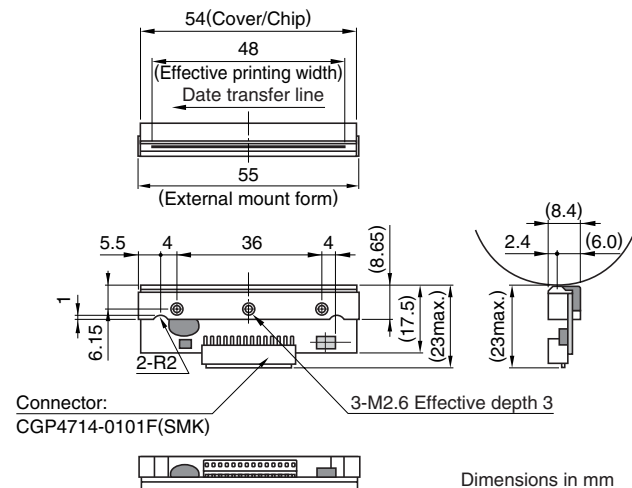
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	384
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	48
Heating element average resistance	(Ω)	1150

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 Printer with Card Reader/Writer installed

BHC4270SE

FEATURES

- Slim series with a light and compact end-face head
- No heat history control type
- Straight path
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Printers with a card reader/writer installed
- Rewrite printers
- Other thermal printers which require a straight path

PRODUCT SPECIFICATIONS

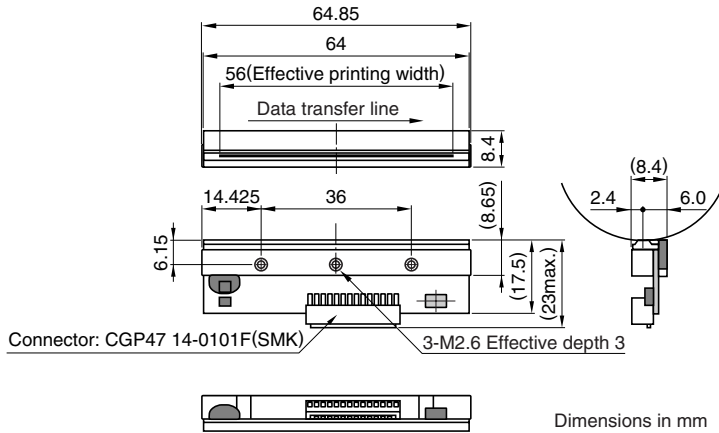
HEATING ELEMENT SPECIFICATIONS

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



• All specifications are subject to change without notice.

Thermal Print Heads

Printer with Card Reader/Writer installed

BHC5214SE

FEATURES

- Slim series with a light and compact end-face head
- No heat history control type
- Straight path
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Printers with a card reader/writer installed
- Rewrite printers
- Other thermal printers which require a straight path



PRODUCT SPECIFICATIONS

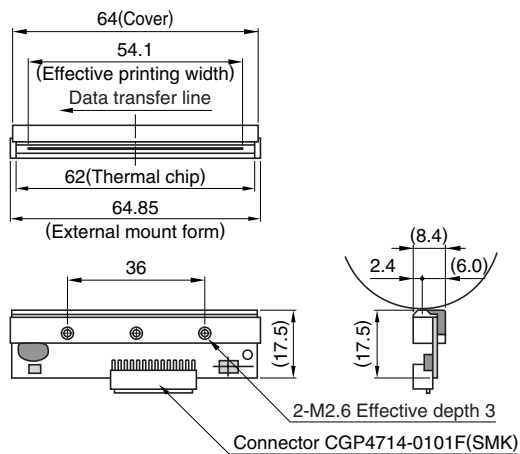
HEATING ELEMENT SPECIFICATIONS

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)	1500

DRIVE CONDITIONS

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

SHAPES AND DIMENSIONS



Dimensions in mm

Thermal Print Heads

Printer with Card Reader/Writer installed

BVC5215SE

FEATURES

- Slim series with a light and compact end-face head
- No heat history control type
- Straight path
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Printers with a card reader/writer installed
- Rewrite printers
- Other thermal printers which require a straight path



PRODUCT SPECIFICATIONS

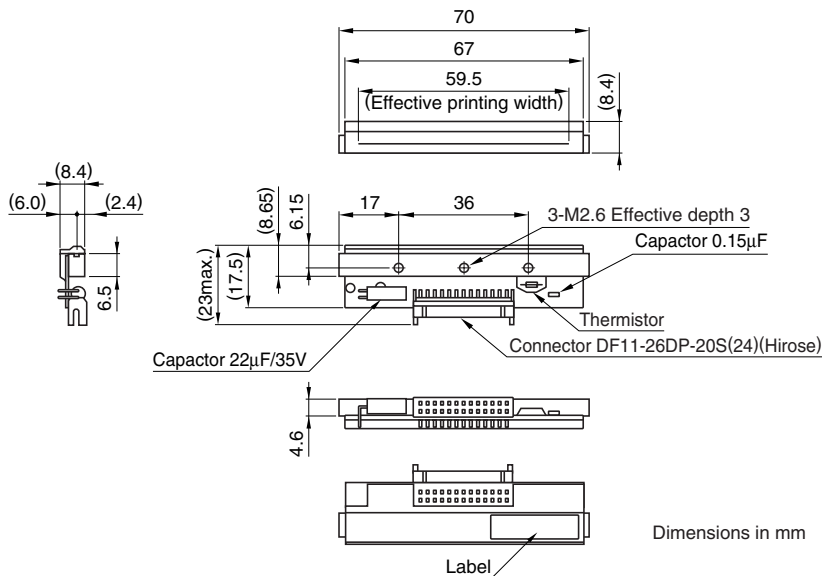
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	704
Dot density	(dots/mm)	11.8
	(DPI)	300
Length of heating element array (effective)	(mm)	59.5
Heating element average resistance	(Ω)	3000

DRIVE CONDITIONS

Applied platen diameter	(mm)	Option
Data transfer frequency	(MHz)	10max./16max.
Driver power supply	(V)	3.0 to 3.6/4.5 to 5.5

SHAPES AND DIMENSIONS



Thermal Print Heads

Printer with Card Reader/Writer installed

BHC6224HE

FEATURES

- Slim series with a light and compact end-face head
- High-speed type with three-stage LATCH heat history control [HS type]
- Straight path
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Printers with a card reader/writer installed
- Rewrite printers
- Other thermal printers which require a straight path

PRODUCT SPECIFICATIONS

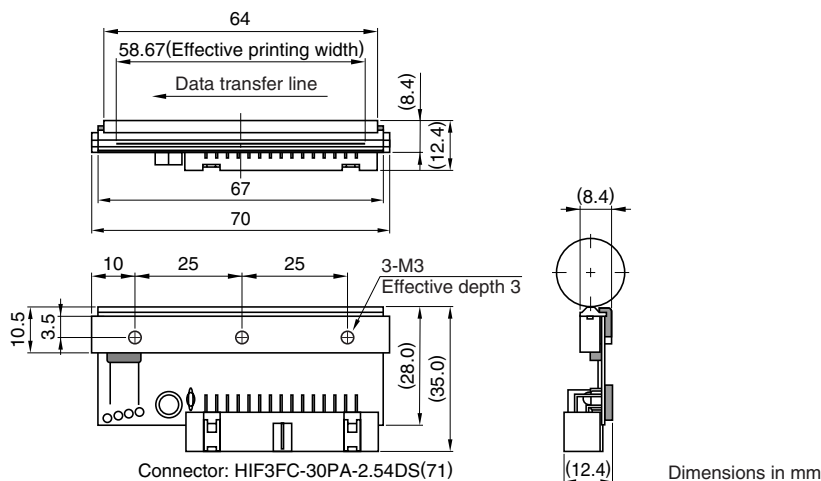
HEATING ELEMENT SPECIFICATIONS

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)	$\phi 20$ max.
Data transfer frequency	(MHz)	8max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



Thermal Print Heads For Barcode and Label Printers

AHP4354HS

FEATURES

- SESTRO series has achieved with high-level ESD characteristics.
- High-speed type with three-stage LATCH heat history control [HS type]
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Barcode and label printers
- Bank ATMs
- Amusements
- Ticket-vending machines
- POS terminals



PRODUCT SPECIFICATIONS

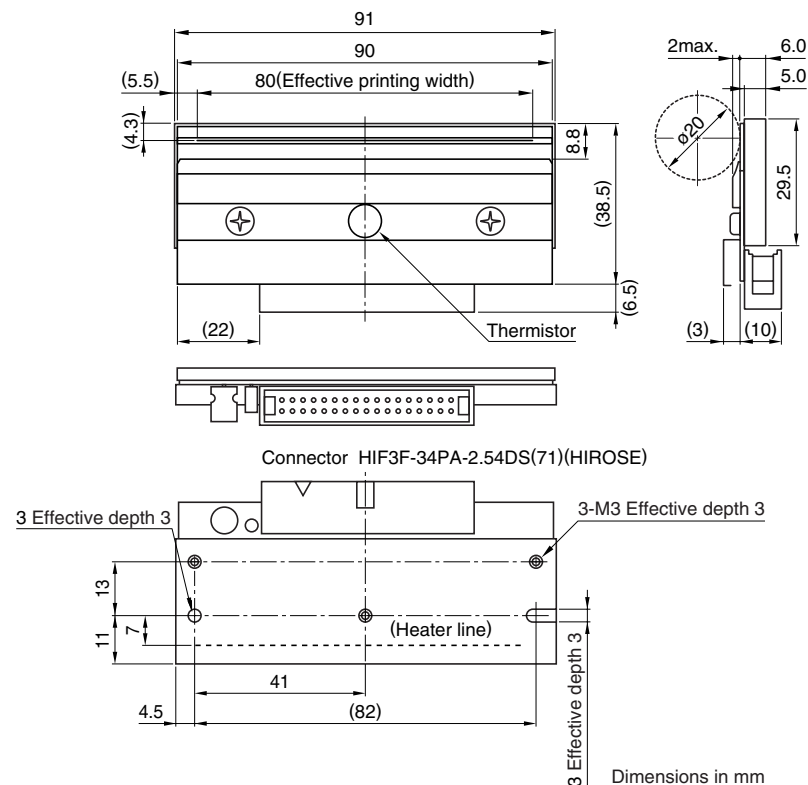
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	640
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	80
Heating element average resistance	(Ω)	800
Glaze type		Partial glaze

DRIVE CONDITIONS

Applied platen diameter	(mm)	$\phi 20$ max.
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 Barcode and Label Printers

AHP4356WS

FEATURES

- SESTRO series has achieved with high-level ESD characteristics.
- WS type supporting binary data input for two-color printing
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Barcode and label printers
- Bank ATMs
- Amusements
- Ticket-vending machines
- POS terminals



PRODUCT SPECIFICATIONS

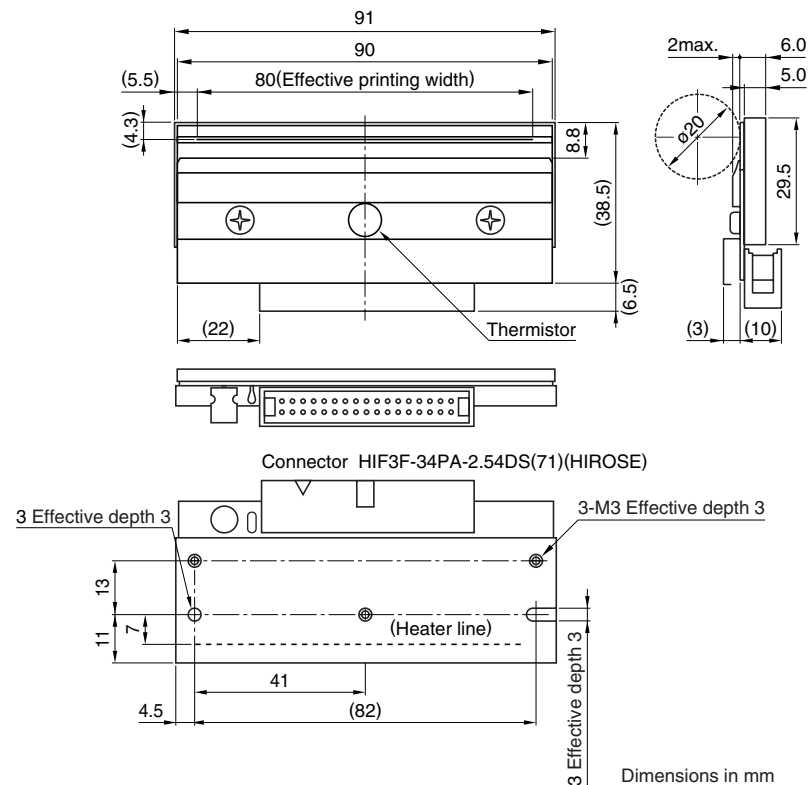
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	640
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	80
Heating element average resistance(Ω)		800
Glaze type		Partial glaze

DRIVE CONDITIONS

Applied platen diameter	(mm)	$\phi 20$ max.
Data transfer frequency	(MHz)	8max.
Driver power supply	(V)	4.5 to 5.5

SHAPES AND DIMENSIONS



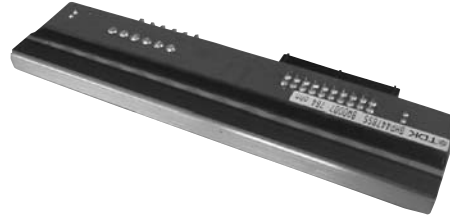
• All specifications are subject to change without notice.

Thermal Print Heads For Barcode and Label Printers

GHP4478SS

FEATURES

- "Preference" Series
3.3V or 5.0V power supply circuit can be selected.
- Normal type with no heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.
- "SESTRO" Series has achieved high ESD characteristics.



APPLICATIONS

- Barcode and label printers
- Bank ATMs
- Amusements
- Ticket-vending machines
- POS terminals

PRODUCT SPECIFICATIONS

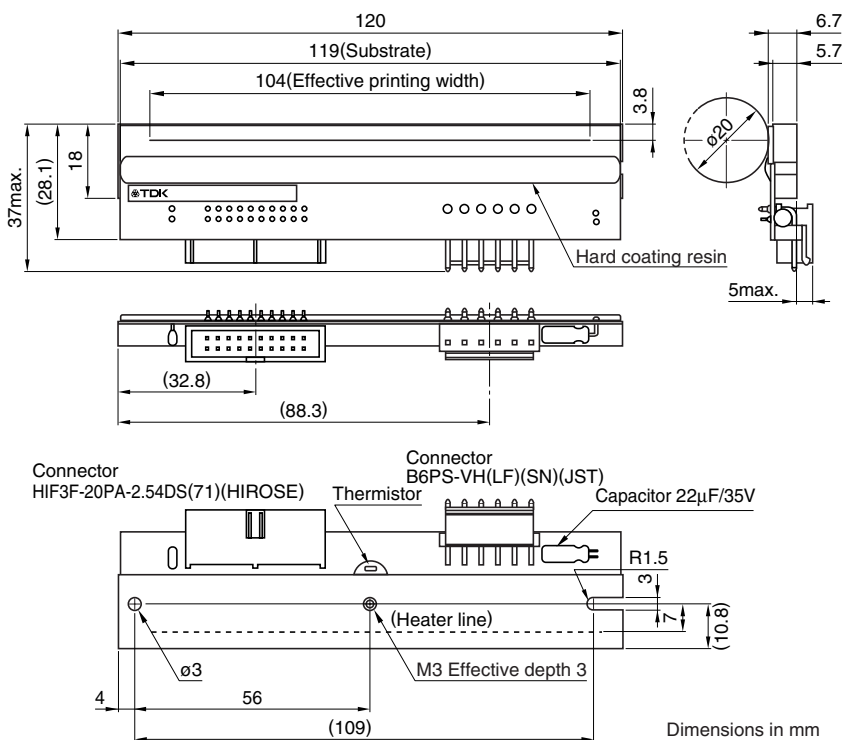
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	832
Dot density	(dots/mm)	8
	(DPI)	203
Length of heating element array (effective)	(mm)	104
Heating element average resistance	(Ω)	800
Glaze type		Partial glaze

DRIVE CONDITIONS

Applied platen diameter	(mm)	ø20max.
Data transfer frequency	(MHz)	12max.
Driver power supply	(V)	3.3 or 5

SHAPES AND DIMENSIONS



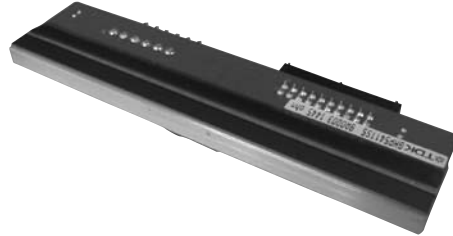
• All specifications are subject to change without notice.

Thermal Print Heads For Barcode and Label Printers

GHP5411SS

FEATURES

- "Preference" Series
3.3V or 5.0V power supply circuit can be selected.
- Normal type with no heat history control type [SS type]
- New-BP protective layer with excellent abrasion resistance is used.
- "SESTRO" Series has achieved high ESD characteristics.



APPLICATIONS

- Barcode and label printers
- Bank ATMs
- Amusements
- Ticket-vending machines
- POS terminals

PRODUCT SPECIFICATIONS

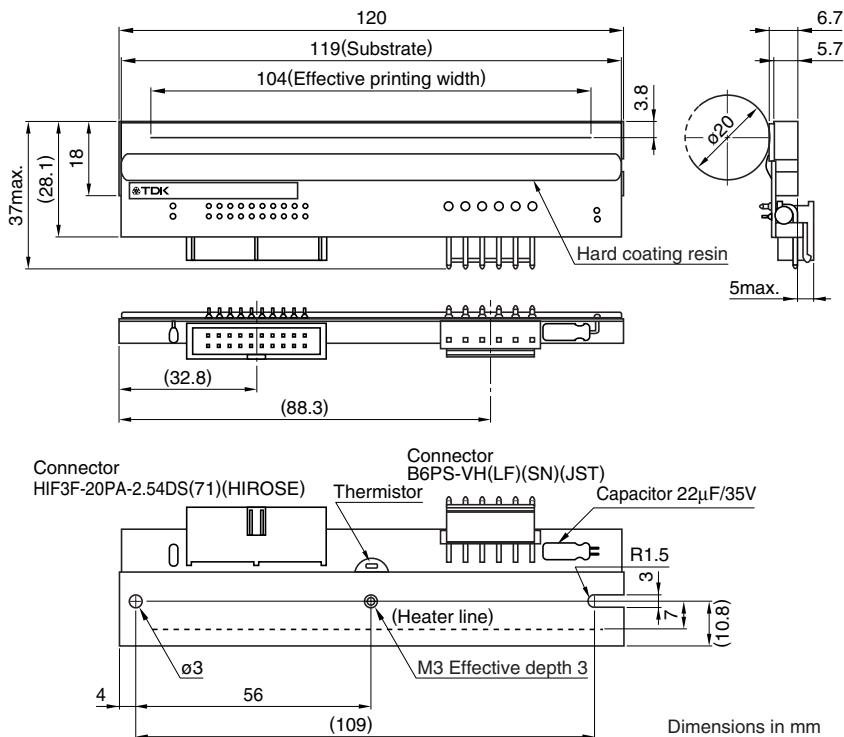
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	1280
Dot density	(dots/mm)	11.8
	(DPI)	301
Length of heating element array (effective)	(mm)	108.16
Heating element average resistance	(Ω)	1500
Glaze type		Partial glaze

DRIVE CONDITIONS

Applied platen diameter	(mm)	ø20max.
Data transfer frequency	(MHz)	12max.
Driver power supply	(V)	3.3 or 5

SHAPES AND DIMENSIONS



• All specifications are subject to change without notice.

Thermal Print Heads For Barcode and Label Printers

DHP6519VS

FEATURES

- "Preference" Series
3.3V or 5.0V power supply circuit can be selected.
- Three-stage or five-stage LATCH heat history control can be selected [VS type].
- New-BP protective layer with excellent abrasion resistance is used.

APPLICATIONS

- Barcode and label printers
- Bank ATMs
- Amusements
- Ticket-vending machines
- POS terminals



PRODUCT SPECIFICATIONS

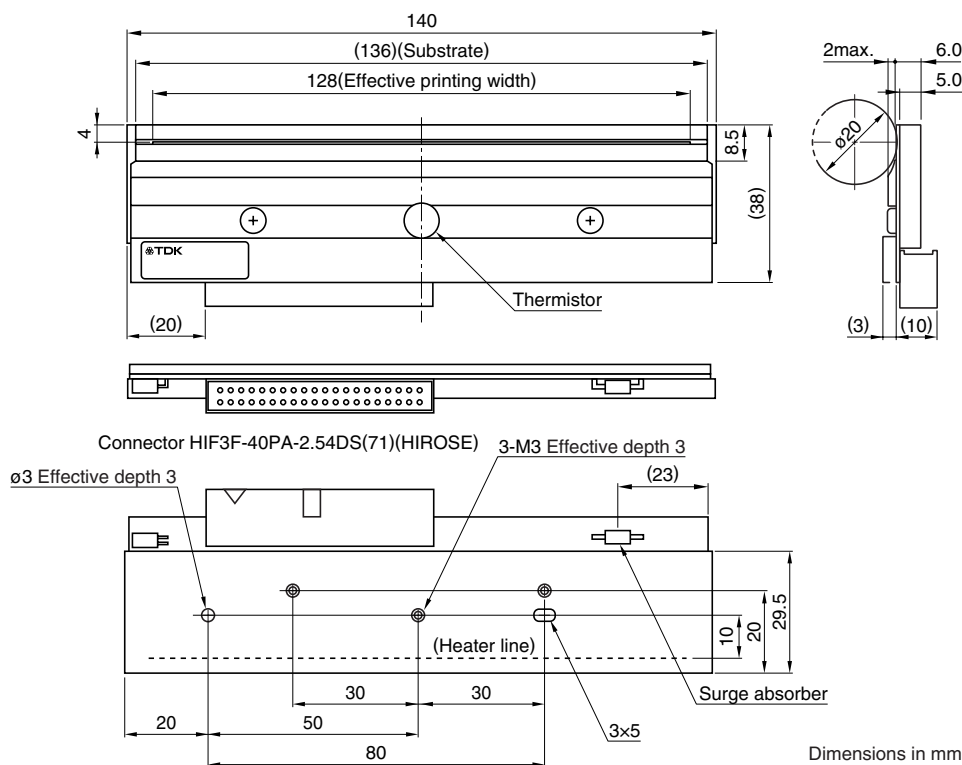
HEATING ELEMENT SPECIFICATIONS

Number of heating elements	(dots)	1536
Dot density	(dots/mm)	12
	(DPI)	305
Length of heating element array (effective)	(mm)	128
Heating element average resistance	(Ω)	1300
Glaze type		Partial glaze

DRIVE CONDITIONS

Driver power supply(V)	Data transfer frequency(MHz)
4.5 to 5.5	20max.
3.0 to 3.6	16max.

SHAPES AND DIMENSIONS



- All specifications are subject to change without notice.