

Recording/Reproducing Heads

BHC, BVC Series

Thermal Print Heads

For Card, General Use

BHC AND BVC SERIES, CONVEX SUBSTRATE TYPE

FEATURES

- All models employ Poly-Si heating elements and BP protective films fabricated using the CVD method.
- All models employ convex-style substrates.
- Three types are available: flat, edged, and new edged. The convex substrate is placed on top of the head in the flat type. In the edged types, the substrate is placed on the edge of the head.
- There are no platen diameter constraints for any models.
- Rated wear life for all models exceeds 60km.
- Rated pulse life for all models exceeds 1×10^8 pulses.
- The new edged type supports thermal history control system for two-color printing applications or 5 stage latch heat history control system to enable high-speed printing.

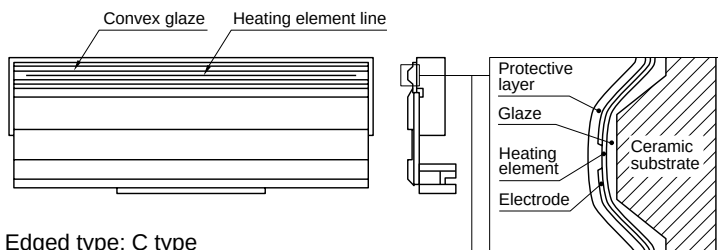
APPLICATIONS

Prepaid card printers, ID card printers, movable head compact printers, multi-head printers

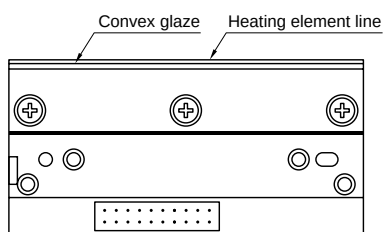
MODEL SYSTEMS

CONVEX SUBSTRATE, CONVEX GLAZE TYPE (STANDARD CONTROL)

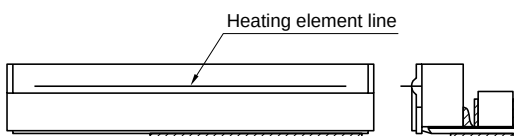
Flat type: S type



Edged type: C type



New edged type: R type



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BASIC SPECIFICATIONS

Control system	Standard control system*
Substrate style	Convex
Glaze type	Convex glaze
Heating element	Poly-Si layer
Protective layer	BP protective layer/Spatter protection layer

* In addition to standard drive, new edged type products with WS and FS drive heat history control systems are now under development.
Please contact TDK for further details.

GENERAL CHARACTERISTICS/OUTER DIMENSIONS (TYPICAL EXAMPLES)

Heating element line position			Flat type	Edged type	New edged type	New edged type
Part No.			BHC4215SS	BHC4214SC	BVC5201SR	BHC6201WR
Effective printing width	(mm)		56	56	59.5	58.67
Number of heating element	(dots)		448	448	704	704
Heating element density	(dots/mm)		8	8	11.8	12
Heating element pitch	(mm)		0.125	0.125	0.0845	0.0833
Heating element dimensions L×W	(mm)		0.13×0.11	0.13×0.11	0.13×0.072	0.10×0.07
Heating element average resistance	(Ω)		970	970	1900	1500
Heating element resistance variation	(%)		±10	±8	±10	±12
Applied power	(W/dot)		0.5	0.5	0.28	0.35
Standard voltage	(V)		22	22	24	24
Standard write pulse width	(ms)		0.8	0.8	0.5	0.35
Standard write pulse repetition period	(ms)		2	2	2	0.8
Maximum platen diameter	(mm)		Unlimited	Unlimited	Unlimited	Unlimited
Wear life	(km)		60	60	60	60
Pulse resistance	(Pulse)		1×10 ⁸	1×10 ⁸	1×10 ⁵	1×10 ⁸
Outer dimensions	Length	(mm)	65	64	70	64
	Width	(mm)	23	7	16	17
	Thickness	(mm)	7	31	22	45

• Part numbers have been changed. Please note the following.

New Part No.	Conventional Part No.
BHC4215SS	LS4105A
BHC4214SC	LS4101

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