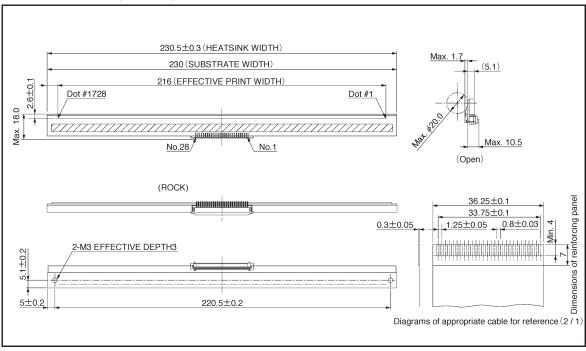
# Thick film thermal printhead (8 dots / mm) KF2008-GK11A

The KF2008-GK11A uses a highly-durable conductive protective film to handle label papers with topcoatings. With ROHM's partial glaze construction, the KF2008-GK11A is a compact and lightweight thick-film thermal print head with printing speeds up to 3 inch / second.

Applications
POS terminals
Label printers
CAT terminals

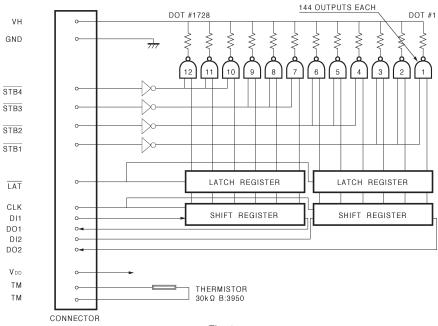
Multi-purpose small-sized printers

- Features
- 1) The use of the newly developed highly-durable conductive protective film has improved countermeasures against static electricity (ESD).
- 2) Acheives an even smaller size and lighter weight by ROHM's original clip connector design and newly developed FFC (full flat cable) specifications.
- A newly developed 144-bit IC levels the strobe partition and reduces the noise level.
- 4) One rank resistance value of 1500  $\Omega \pm 3\%$  eliminates the inconvenience of rank selection.
- 5) 2-inch, 3-inch, 4-inch, and 8-inch series are available.



## External dimensions (Units: mm)

# •Equivalent circuit





### Pin assignments

	0	
No.	Circuit	Ν
1	VH	 1
2	VH	 1
3	VH	 1
4	DO2	 1
5	DI2	 1
6	CLK	 2
7	LAT	 2
8	STB1	 2
9	STB2	 2
10	ТМ	 2
11	GND	 2
12	GND	 2
13	GND	 2
14	GND	 2

No.	Circuit
15	GND
16	GND
17	GND
18	GND
19	ТМ
20	Vdd
21	STB3
22	STB4
23	DO1
24	DI1
25	VH
26	VH
27	VH
28	VH

## Timing chart

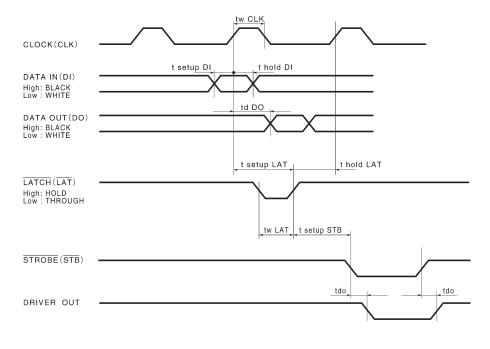


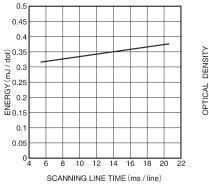
Fig. 2

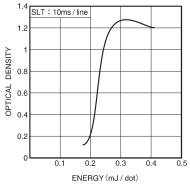
#### Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width		216.0	mm
Dot pitch	-	0.125	mm
Total dot number	-	1728	dots
Average resistance value	Rave	1500	Ω
Applied voltage	Vн	24.0	V
Applied power	Po	0.30	W / dot
Print cycle	SLT	5.0	ms
Pulse width	Ton	0.80	ms
Maximum number of dots energized simultaneously	-	432	dots
Maximum clock frequency	-	4	MHz
Maximum roller diameter	-	14.0	mm
Running life / pulse life	-	20 / 3×10 <sup>7</sup>	km / pulses
Operating temperature	-	5~45	°C



#### Electrical characteristic curves





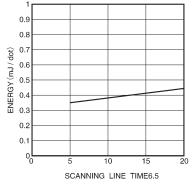


Fig. 3 Adaptive speed chart

Fig. 4 Representative density curve

Fig. 5 Maximum energy curve

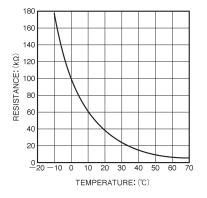


Fig. 6 Thermistor curve