Compact low voltage thick film thermal printhead (6dots / mm) KF1502-GT20A

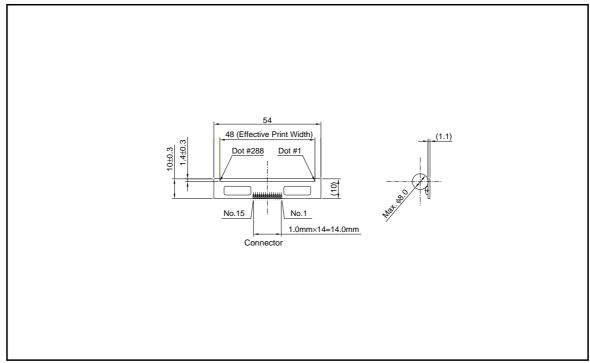
These compact, lightweight printheads have low power requirements and are intended for ECR and mobile applications. Drawing 7.2V, a maximum print speed of 2 inches per second is possible.

Applications

ECR printers Hand-held printers

Features

- 1) A wide range of power supply voltage, from 4.2V-8.5V, can be used to drive the printhead. This gives the flexibility for use with printers designed to operate with power from various battery configurations.
- 2) To allow the design of compact printers for use in calculators and other mobile applications, the basic specifications of the unit have been standardized. This gives engineers greater freedom to develop mechanical designs.
- 3) One rank resistance value of $210\Omega \pm 4\%$ eliminates the inconvenience of rank selection.



•External dimensions (Unit : mm)

•Equivalent circuit

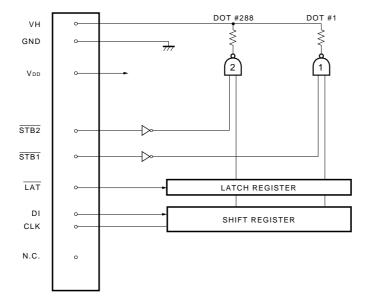


Fig.1

Pin assignments

No.	Circuit		
1	VH		
2	VH		
3	LAT		
4	N.C.		
5	GND		
6	GND		
7	STB1		
8	Vdd		
9	STB2		
10	GND		
11	GND		
12	CLK		
13	DI		
14	VH		
15	15 VH		

Timing chart

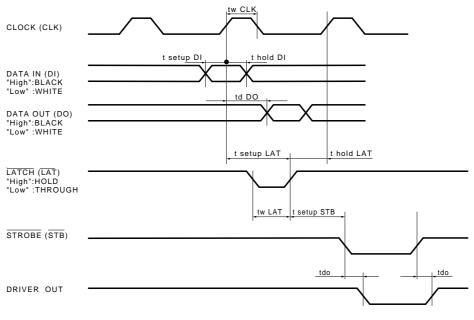
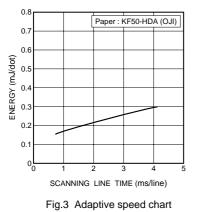


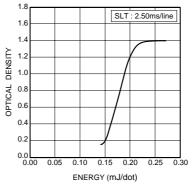
Fig.2

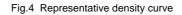
Characteristics

Parameter		Typical	Unit
Effective printing width	_	48.096	mm
Dot pitch	-	0.167	mm
Total dot number	-	288	dots
Average resistance value	Rave	210	Ω
Applied voltage	Vн	7.2	V
Applied power	Po	0.14	W/dot
Print cycle	SLT	2.5	ms
Pulse width	Ton	1.68	ms
Maximum number of dots energized simultaneously	-	144	dots
Maximum clock frequency	-	4	MHz
Maximum roller diameter	-	φ8.0	mm
Running life / pulse life	_	30/5×107	km/pulses
Operating temperature	_	5 to 45	°C

•Electrical characteristic curves







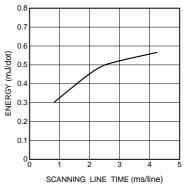


Fig.5 Maximum energy curve

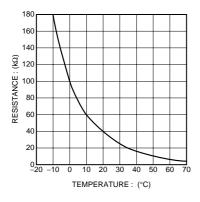


Fig.6 Thermistor curve

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