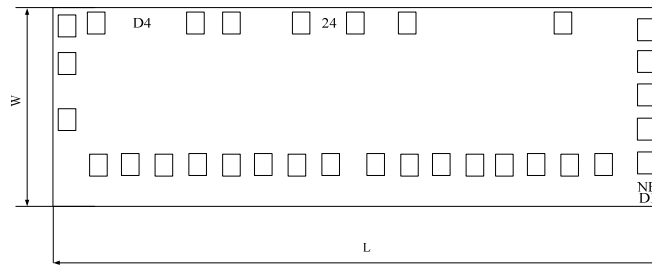


➤ **Product feature ver1.0**

- 1,24 decoding drive chip, decoding and driver finishing once.
- 2,4 routes dirver inside, they work independently
- 3,Input signal and TTL/CMOS compatiabile
- 4, Difference impulse signal output
- 5, Excellent drive power
- 6, High speed, low power dissipation

➤ **Product description**

WQD0005H is a 24 decoding driver chip, it is used in the conversion from TTL/CMOS frequency to difference control grid frequency which used in GaAs FET microwave switch,attenuator,phase shifter. the high ouput frequency can be adjustable between 0V~2V,it has features like low power dissipation,high speed and convenient in using.



L=4mm, W=1.4mm

Min pressure point:0.12mm×0.12mm, Chip thickness:0.35mm

➤ **Typical electronic features ( at 25°C)**

Feature <sup>1, 2</sup>	Frequency	Min	Max	Unit
Decode deducting delay(input50%~output50%)	DC-20MHz		35	ns
Decode shutting delay (input50%~output50%)	DC-20MHz		35	ns
Drive deducting delay (input50%~output50%)	DC-20MHz		25	ns
Drive deducting delay (input50%~output50%)	DC-20MHz		25	ns
Decode /drive upedge (10%~90%)	DC-20MHz		8	ns
Decode/drive downedge (10%~90%)	DC-20MHz		8	ns
Decode/drive high output level	DC-20MHz	-0.5		V
Decode/drive low ouput level	DC-20MHz		-4.5	V
Static current			100	uA

1. Condition:VDD=5V,VEE=-5V,VOPT=0V, output load grounding 24pF

2. High output frequency can be changed according with VOPT, generally the two are equal

### ➤ Truth table

4 routes drivers truth table, x means signal No.1 to No.4

INPUT	OUTPUT	
INx	xP	xN
Logic 0	0	1
Logic 1	1	0

Truth talbe for No.2-4 decoder

Input		Output							
INB	INA	AP	AN	BP	BN	CP	CN	DP	DN
0	0	1	0	0	1	0	1	0	1
0	1	0	1	1	0	0	1	0	1
1	0	0	1	0	1	1	0	0	1
1	1	0	1	0	1	0	1	1	0

### ➤ Chip outline

