

Graphing Calculator

39g+

Description : Graphing Calculator for maths students.

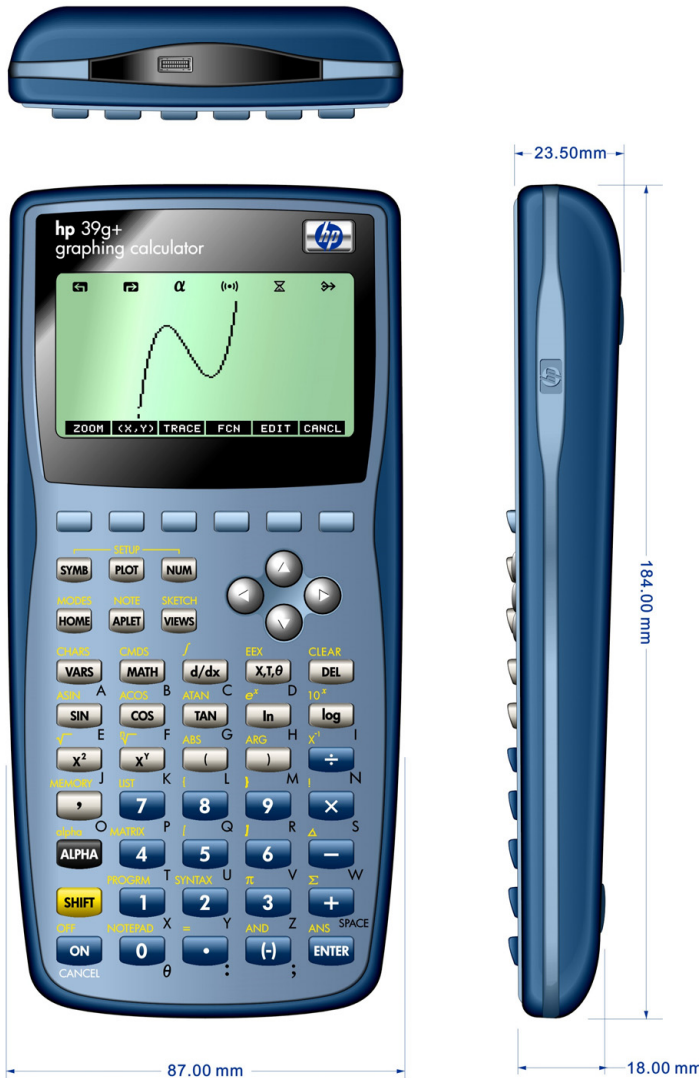


Figure : ID drawing

Electronic Specification

CPU :

75Mhz ARM9

Display Size:

131 x 64 pixels

Display type:

Pixel

Memory :

RAM: 256 KB

IR Port :

Irda

Serial port :

USB

Power Supply :

AAA x 3 + CR2032

Battery life :

Pending

Power consumption :

Pending

Material Specification

The Material of The Enclosure :

Plastic

The Material of The Key Top :

Plastic

Dimensions :

184.0 x 87.0 x 23.5 mm

Weight :

Pending

■ Operating Features

- ◇ Entry Logic: Algebraic
- ◇ Menus, Prompts
- ◇ Alpha Messages
- ◇ Soft-keys
- ◇ Numeric precision –intermediate/internal:
15 digits internal/rounded to 12 for display
- ◇ Displayed numerical precision: 12 digits,
exponent: -499 to +499
- ◇ Internal numerical precision (intermediate):
15 digit, exponent: -49999 to +49999
- ◇ Additional applications available on
Internet

■ Configuration

- ◇ RAM: 256K
- ◇ Peripherals
- ◇ Supports Aplets

■ Vector and matrix operations

- ◇ Matrix additions, subtraction, division,
multiplication and inverse
- ◇ Matrix editor

■ Graphing Features

- ◇ 2-D Function, Polar, Parametric Plot
- ◇ Sequence; cobweb, Stairstep Plot
- ◇ Plot/Table Screen, Box Whisker Plot
- ◇ Histogram, Scatter Plot
- ◇ Find: Intersect, Extremum, Slope, Area
- ◇ Zoom, Trace, Co-ordinates, Shade

■ Math Features

- ◇ $+$, $-$, x , $\sqrt[n]{}$, $1/x$, $+/-$, \ln , e^x , $\sqrt[y]{}$
- ◇ y^x , LOG , 10^x , x^2 , $\%$, π , $n!$
- ◇ Fractions
- ◇ Degrees, radians, or grads mode
- ◇ Trigonometric functions/ inverses
- ◇ Hyperbolics/inverses
- ◇ HP Solve application (root finder)
- ◇ Numeric Integration

- ◇ Symbolic Integration (simple cases)
- ◇ Numeric differentiation
- ◇ Symbolic differentiation (simple cases)
- ◇ Complex number functions
- ◇ Polynomial root finder, Taylor series
- ◇ Absolute value, round
- ◇ Integer & fractional part of a number
- ◇ Modulo function, floor, ceiling

■ Scientific Features

- ◇ Decimal hrs/hrs min sec conversions
- ◇ Polar/rectangular conversions
- ◇ Angle conversions

■ Statistical Features

- ◇ Σx , Σx^2 , Σy , Σy^2 , Σxy
- ◇ Sample standard deviation, mean
- ◇ Population standard deviation
- ◇ Linear regression
- ◇ Combinations, permutations
- ◇ Weighed mean
- ◇ Edit, save, name, list
- ◇ Curve fit (LIN, LOG, EXP, POW)
- ◇ Plot statistical data
- ◇ Hypothesis Tests
- ◇ Confidence Intervals

■ Programming Features

- ◇ Root finder: HP Solve
- ◇ Number of steps/regs or bytes: 128KB
- ◇ Number of Programs/formulae: ++
- ◇ Levels of subroutines: ++
- ◇ Branching
- ◇ Alpha prompts in programs
- ◇ Input forms, alpha string manipulation
- ◇ Index looping
- ◇ Alpha listing