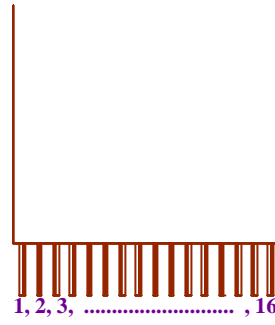
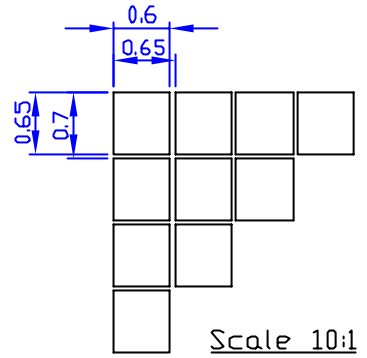


BG16036 160x36 dots Graphic Module

Dimension drawing

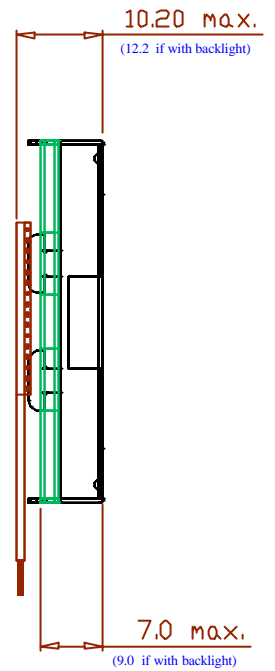
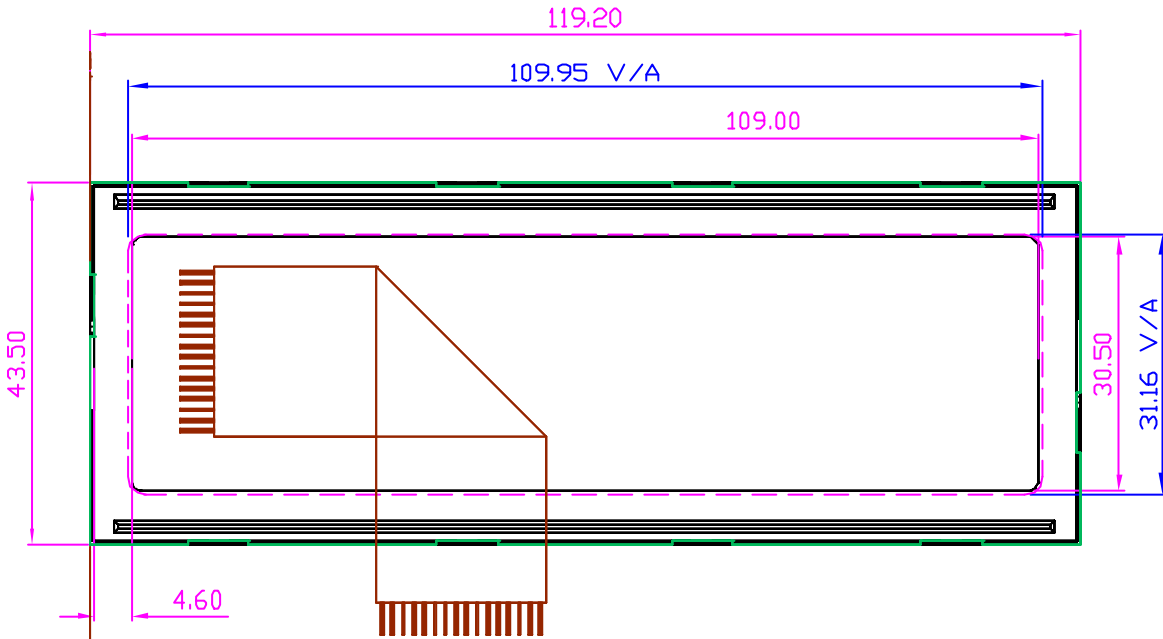


CABLE DETAIL



Scale 10:1

DOT SIZE



Feature

+5V Power supply (option 3.3V)

| Pin No. | Symbol | Function |
|---------|--------|----------------------|
| 1 | D7 | Data bus line |
| 2 | D6 | Data bus line |
| 3 | D5 | Data bus line |
| 4 | D4 | Data bus line |
| 5 | D3 | Data bus line |
| 6 | D2 | Data bus line |
| 7 | D1 | Data bus line |
| 8 | D0 | Data bus line |
| 9 | GND | Power Supply (GND) |
| 10 | /RD | Data read |
| 11 | /WR | Data write |
| 12 | A0 | Register select |
| 13 | Vdd | Power Supply (+5V) |
| 14 | C86 | MPU interface select |
| 15 | CS2 | Chip select input |
| 16 | /CS1 | Chip select input |

Mechanical Data

| Item | Standard value | Unit |
|------------------|----------------|------|
| Module Dimension | 119.20x43.50 | mm |
| Viewing Area | 109.95x31.16 | mm |
| Dot size | 0.65x0.60 | mm |
| Dot pitch | 0.70x0.65 | mm |
| Cable pitch | FFC 1.0 | mm |
| | FFC 1.25 | mm |
| | IDE 1.27 | mm |

Remark: - Units with 5V supply are available.
 - Higher units with Backlight are available.

Absolute Maximum Rating

| Item | Symbol | Rating | Unit |
|-----------------------|------------------|------------------------------|------|
| Supply voltage | V _{DD} | -0.3 to +7.0 | V |
| | | -0.3 to +6.0 | |
| | | -0.3 to +4.5 | |
| Input voltage | V _{IN} | -0.3 to V _{DD} +0.3 | V |
| Output voltage | V _O | -0.3 to V _{DD} +0.3 | V |
| Operating temperature | T _{OPR} | -40 to +85 | °C |
| Storage temperature | T _{STR} | -55 to +125 | °C |

Electrical characteristics

+5V Power supply (option 3.3V)

| Item | Symbol | Condition | Standard Value | | | Unit | |
|----------------------------|------------------|--|-----------------------|------|---------------------|------|-----|
| | | | Min. | Typ. | Max. | | |
| Power voltage | V _{DD} | Recommended Operation | 3.15 | 3.3 | 3.45 | V | |
| | | Operational | - | - | - | | |
| High-level input voltage | V _{IHC} | 0.7xV _{DD} | - | - | V _{DD} | V | |
| | | 0.8xV _{DD} | - | - | V _{DD} | | |
| Low-level input voltage | V _{ILC} | V _{SS} | - | - | 0.3xV _{DD} | V | |
| | | V _{DD} = 2.7V | V _{SS} | - | 0.2xV _{DD} | | |
| High-level output voltage | V _{OHC} | I _{OH} = -1 mA | 0.8xV _{DD} | - | V _{DD} | V | |
| | | V _{DD} =2.7V, I _{OH} =-0.5mA | 0.8xV _{DD} | - | V _{DD} | | |
| Low-level output voltage | V _{OLC} | I _{OL} = 1 mA | V _{SS} | - | 0.2xV _{DD} | V | |
| | | V _{DD} = 2.7V, I _{OL} = 0.5mA | V _{SS} | - | 0.2xV _{DD} | | |
| Input leakage current | I _{LI} | V _{IN} = V _{DD} or V _{SS} | -1.0 | - | 1.0 | µA | |
| Output leakage current | I _{LO} | | -3.0 | - | 3.0 | µA | |
| Static current consumption | I _{SSQ} | V _{IN} = V _{DD} or V _{SS} | - | 0.01 | 5.0 | kΩ | |
| | | V _S = -18.0V (V _{DD} level) | - | 0.01 | 15.0 | | |
| Input pin capacity | C _{IN} | Ta=25°C, f=1MHz | - | 5.0 | 8.0 | µA | |
| Oscillation frequency | f _{osc} | Ta=25°C | V _{DD} =5V | 18 | 22 | 26 | kHz |
| | | | V _{DD} =2.7V | 18 | 22 | 26 | |