

Universal housings - UCS 237-195-F-GD 7035 - 2203341

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Complete housing for PCBs, can be positioned flexibly; includes housing half shells, side panels closed, adhesive domes for PCB attachment, screws for housing and PCB attachment; light gray housing with turquoise blue corner inlays

Your advantages

- ✓ High degree of application flexibility, thanks to the modular housing design
- ✓ Flexible PCB attachment, adapts to virtually all form factors
- ✓ Practical customization options
- ✓ Reduced logistics outlay, thanks to components which are compatible with one another



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 055626 404523 |
| GTIN | 4055626404523 |

Technical data

Item properties

| | |
|------------------------------|-----------------------|
| Type | UCS 237-195-F-GD 7035 |
| Order No. | 2203341 |
| Housing type | Universal housings |
| Type | Flat design |
| Max. IP code to attain | IP40 |
| Ventilation openings present | no |

Measurements

| | |
|--------------|--|
| Width [w] | 237 mm |
| Height [h] | 195 mm |
| Depth [d] | 47 mm |
| Dimensions | 212 mm x 170.2 mm (Maximum circuit board dimensions) |

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Technical data

Material specifications

| | |
|--|-------------------|
| Color (RAL) | light gray (7035) |
| Flammability rating according to UL 94 | V0 |
| Housing material | PC |

Ambient conditions

| | |
|---|--|
| Ambient temperature (storage/transport) | -40 °C ... 55 °C |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C ... 100 °C (depending on power dissipation) |
| Relative humidity (storage/transport) | 80 % |

PCB data

| | |
|------------------------|---|
| Number of PCB holders | 1 |
| Note on PCB holders | This product is prepared for a printed-circuit board. Additional printed-circuit boards can be mounted using adhesive pads (accessories). |
| PCB thickness | 0.8 mm ... 3 mm |
| Total PCB surface | 36040 mm ² |
| Type of PCB mount | Bolt mounting |
| Supported form factors | EPIC, ETX, Nano-ITX, PC/104, Pico-ITX, Raspberry Pi, Mini-DTX, Mini-ITX, EBX |

Power dissipation, single housing at 20 °C

| | |
|---------------------|----------|
| Ambient temperature | 20 °C |
| Reduction factor | 1 |
| Mounting position | vertical |
| Power dissipation | 31 W |

Power dissipation, single housing at 30 °C

| | |
|---------------------|----------|
| Ambient temperature | 30 °C |
| Reduction factor | 0.8 |
| Mounting position | vertical |
| Power dissipation | 25.5 W |

Power dissipation, single housing at 40 °C

| | |
|---------------------|----------|
| Ambient temperature | 40 °C |
| Reduction factor | 0.65 |
| Mounting position | vertical |
| Power dissipation | 20.3 W |

Power dissipation, single housing at 50 °C

| | |
|---------------------|----------|
| Ambient temperature | 50 °C |
| Reduction factor | 0.5 |
| Mounting position | vertical |
| Power dissipation | 15.5 W |

Power dissipation, single housing at 60 °C

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Power dissipation, single housing at 60 °C

| | |
|---------------------|----------|
| Ambient temperature | 60 °C |
| Reduction factor | 0.32 |
| Mounting position | vertical |
| Power dissipation | 10 W |

Mechanical strength/tumbling barrel

| | |
|-----------------------|------------------------|
| Specification | IEC 60068-2-31:2008-05 |
| Height of fall | 50 cm |
| Number of drop cycles | 50 |

Vibration test

| | |
|------------------------|------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.15 mm (10 - 58.1 Hz) |
| Acceleration | 2g (58.1 - 150 Hz) |
| Test duration per axis | 2.5 h |
| Test directions | X-, Y- and Z-axis |

Shock

| | |
|--------------------------------|-----------------------------------|
| Specification | IEC 60068-2-27:2008-02 |
| Pulse shape | Half-sine |
| Acceleration | 15g |
| Shock duration | 11 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

Thermostability (ball thrust test)

| | |
|---------------|------------------------|
| Specification | IEC 60695-10-2:2014-02 |
| Temperature | 125 °C |
| Test duration | 1 h |
| Force | 20 N |

Test for assessing the risk of fire (glow wire)

| | |
|------------------|---|
| Specification | DIN EN 60695-2-11 (VDE 0471-2-11):2014-11 |
| Temperature | 850 °C |
| Time of exposure | 30 s |

Test for substances that would hinder coating with paint or varnish

| | |
|---------------|----------------------|
| Result | Test passed |
| Specification | VW PV 3.10.7:2005-02 |

Degrees of protection provided by enclosures (IP code)

| | |
|---------------|---|
| Specification | IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08 |
|---------------|---|

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Degrees of protection provided by enclosures (IP code)

| | |
|---------------------------------------|------|
| Result, degree of protection, IP code | IP40 |
|---------------------------------------|------|

General information

| | |
|------|---|
| Note | The housing can be opened a maximum of 10 times. |
| | Attach the adhesive pads: Make sure that the surface of the housing is clean, dry, and free of grease. Temperature range: +18°C ... +30°C / Closing pressure force: 60 N / Closing pressure time: 3 s |

Note on mounting

| | |
|--------------------------------------|---|
| Tightening torque / rotational speed | Screw connection between housing halves: 1.2 Nm-1.4 Nm / 500 rpm-1000 rpm |
| | Mounting the PCB: 0.4 Nm-0.5 Nm / 500 rpm-1000 rpm |
| Drive form screw head | Screw connection between housing halves: Slotted Torx®(T10) |
| | Mounting the PCB: Slotted Torx®(T7) |

Packaging information

| | |
|----------------------------|---------------|
| Type of packaging | Box packaging |
| Pieces per package | 1 |
| Denomination packing units | Pcs. |

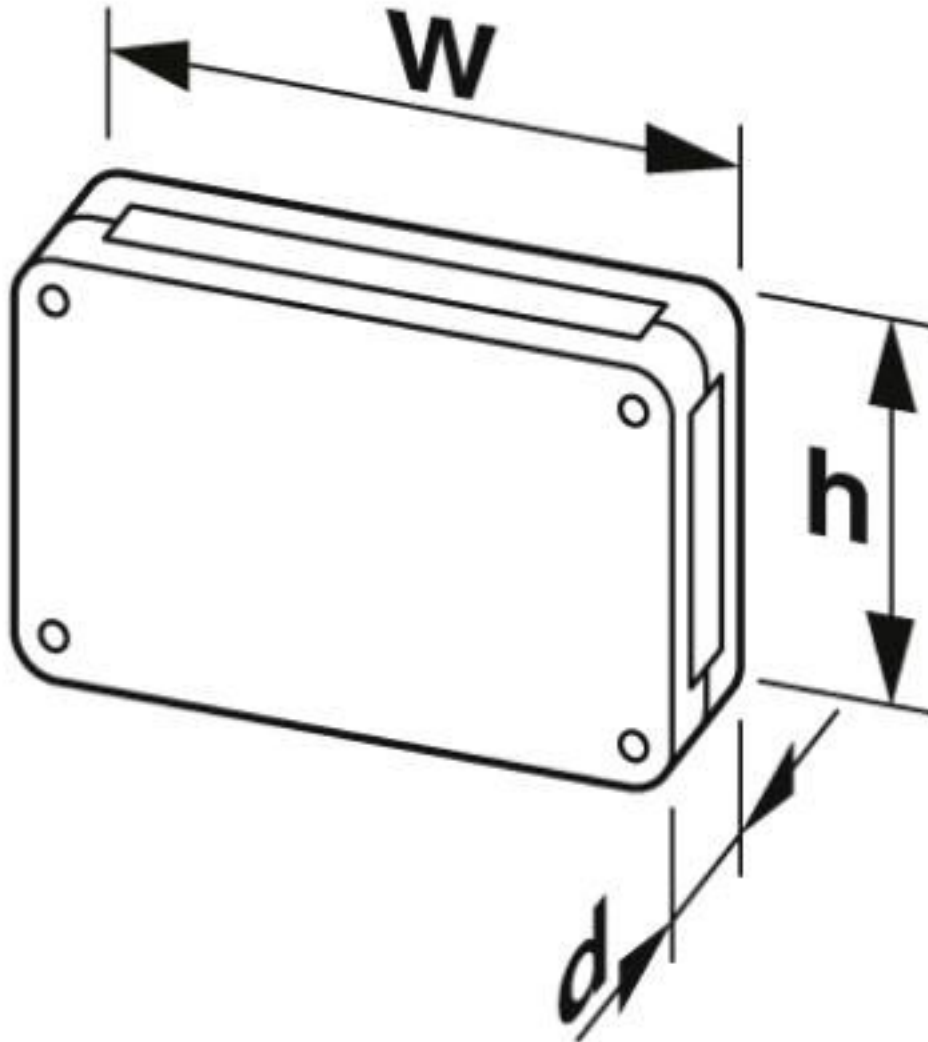
Standards and regulations

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

Drawings

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Dimensional drawing



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27182702 |
| eCl@ss 5.1 | 27180506 |
| eCl@ss 6.0 | 27180800 |
| eCl@ss 7.0 | 27182702 |
| eCl@ss 8.0 | 27182702 |
| eCl@ss 9.0 | 27182702 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC001031 |
| ETIM 6.0 | EC001031 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 7.0 | EC001031 |
|----------|----------|

Accessories

Accessories

Screwdriver tools

Screwdriver - SF-TXH 10X80 - 1200149



Screwdriver, Torx® with bore hole, TX 10 x 80, two-component handle

Screw insert - SF-BIT-TX 10-50 - 1212573



Screw bit, Torx®, E6.3-1/4" drive, size: TX 10 x 50 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173

Torque tool

Battery-powered screwdriver - SF-ASD 21 - 1212532



Cordless screwdriver, incl. 1.5 Ah battery, forward/reverse running, 21-stage coupling, up to 600 rpm, 6.3 mm hexagonal fast connection drill chuck, torque can be adjusted from 0.3 ... 4.4 Nm

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

Additional products

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Accessories

Corner inlay - UCS CC 7035 - 2203395

Corner inlay for UCS housings, material: polyamide, color: light gray, similar to RAL 7035



Corner inlay - UCS CC 9005 - 2203396

Corner inlay for UCS housings, material: polyamide, color: black, similar to RAL 9005



Screw set - UCS SF 3,5X20 - 2203402



Screw set for creating a UCS housing of height 47 mm

Screw set - UCS SF 3,5X40 - 2203403



Screw set for creating a UCS housing of height 67 mm

Mounting set - UCS GD 9005 - 2203401

Adhesive screw boss, for securing the printed-circuit board, material: polyamide; content 4 pieces with screws 2.5 x 8



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Accessories

Stand - UCS PED 9005 - 2203393



Stand for mounting the UCS housing; height: 47 mm; material: polyamide; color: black, similar to RAL 9005; wall mounting option is integrated, snaps into the screw holes of the housing

Stand - UCS PED 7035 - 2203392



Stand for mounting the UCS housing; height: 47 mm; material: polyamide; color: light gray, similar to RAL 7035; wall mounting option is integrated, snaps into the screw holes of the housing

Stand - UCS PED 5018 - 2203394



Stand for mounting the UCS housing, height: 47 mm; material: polyamide; color: turquoise blue, similar to RAL 5018; wall mounting option is integrated, snaps into the screw holes of the housing

Wall bracket - UCS WM-B 7035 - 2203718



Adapter for mounting the UCS housing on the wall, material: polyamide, color: light gray similar to RAL 7035, used instead of UCS CC corner insert; only used in conjunction with UCS GD 9005 adhesive pad

Wall bracket - UCS WM-B 9005 - 2203719



Adapter for mounting the UCS housing on the wall, material: polyamide, color: black similar to RAL 9005, used instead of UCS CC corner insert; only used in conjunction with UCS GD 9005 adhesive pad

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Accessories

Wall bracket - UCS WM-B 5018 - 2203391



Adapter for mounting the UCS housing on the wall, material: polyamide, color: turquoise similar to RAL 5018, used instead of UCS CC corner insert. Only used in conjunction with UCS GD 9005 adhesive pad

Corner guards - UCS CP 7035 - 2203346



Adapter for protecting the corners of the UCS housing; material: TPE-U; color: light gray, similar to RAL 7035; held in the screw holes of the housing

Corner guards - UCS CP 9005 - 2203347



Adapter for protecting the corners of the UCS housing; material: TPE-U; color: black, similar to RAL 9005; held in the screw holes of the housing

Corner guards - UCS CP 5018 - 2203348



Adapter for protecting the corners of the UCS housing; material: TPE-U; color: turquoise blue, similar to RAL 5018; held in the screw holes of the housing

Stacking adapters - UCS CS 7035 - 2203720



Adapter for stacking several UCS housings of one size; material: TPE-U; color: light gray, similar to RAL 7035; held in the screw holes of the housing

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Accessories

Stacking adapters - UCS CS 9005 - 2203721



Adapter for stacking several UCS housings of one size; material: TPE-U; color: black, similar to RAL 9005; held in the screw holes of the housing

Stacking adapters - UCS CS 5018 - 1029039



Adapter for stacking several UCS housings of one size; material: TPE-U; color: turquoise blue, similar to RAL 5018; held in the screw holes of the housing

Fiber optic - HS LC-H-D2/ R2XC1-2,54 - 2202316



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

Fiber optic - HS LC-H-D2/ R2XC2-2,54 - 2202317



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

Fiber optic - HS LC-H-D2/ R2XC5-2,54 - 2202318



Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)

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Accessories

Fiber optic - HS LC-H-D2/ R2XC10-2,54 - 2202319

Light guides, passive, rigid, can be used for the ME, ME-MAX, ME-IO, ME PLC, and EH housing ranges (housing must be processed)



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