



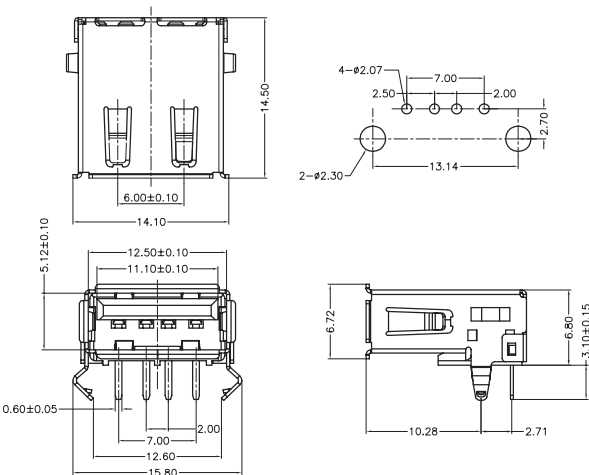
WR-COM - Communication Connector

	USB	09-2 to 09-11
	Mini DIN	09-12 to 09-13
	RJ45	09-14 to 09-15
	HDMI	09-16
	DVI	09-17

Performance level 3	50 mating cycles, no gaz test
Performance level 2 as per CECC 75 301-802	250 mating cycles, 4 days 4 mixed gaz test - IEC 60 512
Performance level 1 as per CECC 75 301-802	500 mating cycles, 10 days 4 mixed gaz test - IEC 60 512



WR-COM USB Type A



MATERIAL

- Insulator material: PBT
- Max temperature: 220 °C 10 s
- Colour: White
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Brass Ni plated
- Quality class: 1500 mating cycles

ENVIRONMENTAL

- Operating temperature: -40 °C up to 105 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1 A
- Working voltage: 30 V
- Insulation resistance: >1000 MOhm
- Dielectric withstanding voltage: 750 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

- Solder temperature: JEDEC lead free wave soldering

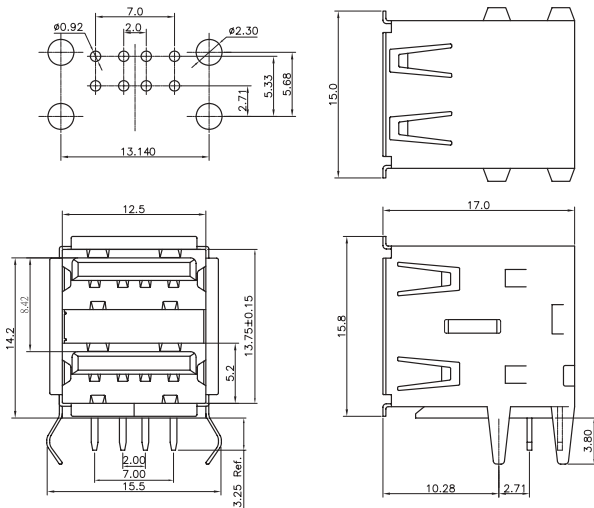
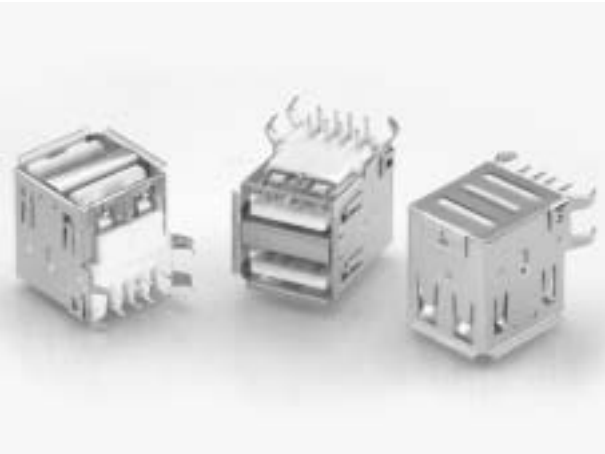
PACKAGING

- Tray

Order Code	Pins	
61400416021	4	-



WR-COM USB Type A Dual Stacked



MATERIAL

- Insulator material: PBT
- Max temperature: 220 °C 10 s
- Colour: White
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Brass Ni plated
- Quality class: 1500 mating cycles

ENVIRONMENTAL

- Operating temperature: -40 °C up to 105 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1 A
- Working voltage: 30 V
- Insulation resistance: >1000 MOhm
- Dielectric withstanding voltage: 750 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

- Solder temperature: JEDEC lead free wave soldering

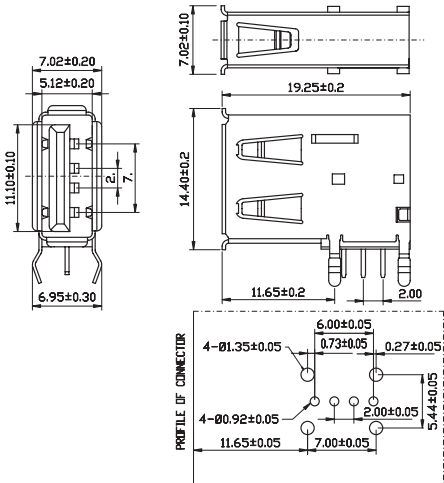
PACKAGING

- Tray

Order Code	Pins	
61400826021	2 x 4	-



WR-COM USB Type A Up-Right



MATERIAL

- | | |
|-----------------------|--------------------|
| • Insulator material: | PBT |
| • Max temperature: | 220 °C 10 s |
| • Colour: | White |
| • Contact material: | Copper alloy |
| • Contact type: | Stamped |
| • Contact plating: | Selective gold |
| • Shielding: | Brass Ni plated |
| • Quality class: | 1500 mating cycles |

ENVIRONMENTAL

- | | |
|--------------------------|---------------------|
| • Operating temperature: | -40 °C up to 105 °C |
| • Flammability rating | UL94-V0 |
| • Compliance: | Lead free and RoHS |

ELECTRICAL

- | | |
|------------------------------------|-------------|
| • Current rating: | 1 A |
| • Working voltage: | 30 V |
| • Insulation resistance: | >1000 MOhm |
| • Dielectric withstanding voltage: | 750 Vac/mn |
| • Contact resistance: | 20 MOhm max |

SOLDERING

- | | |
|-----------------------|--------------------------------|
| • Solder temperature: | JEDEC lead free wave soldering |
|-----------------------|--------------------------------|

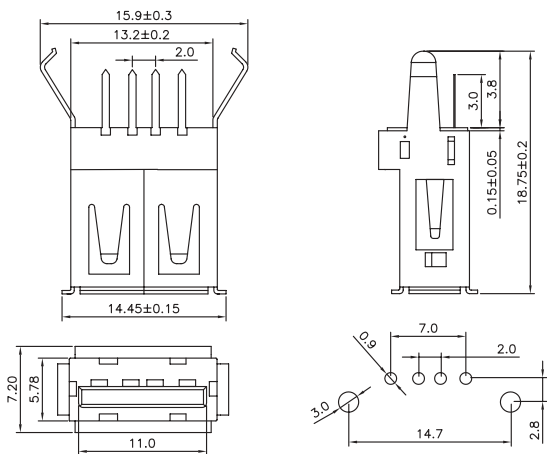
PACKAGING

- Tray

Order Code	Pins	
614004134726	4	-



WR-COM USB Type A Vertical



MATERIAL

- Insulator material: PBT
- Max temperature: 220 °C 10 s
- Colour: White
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Brass Ni plated
- Quality class: 1500 mating cycles

ENVIRONMENTAL

- Operating temperature: -40 °C up to 105 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1 A
- Working voltage: 30 V
- Insulation resistance: >1000 MOhm
- Dielectric withstanding voltage: 750 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

- Solder temperature: JEDEC lead free wave soldering

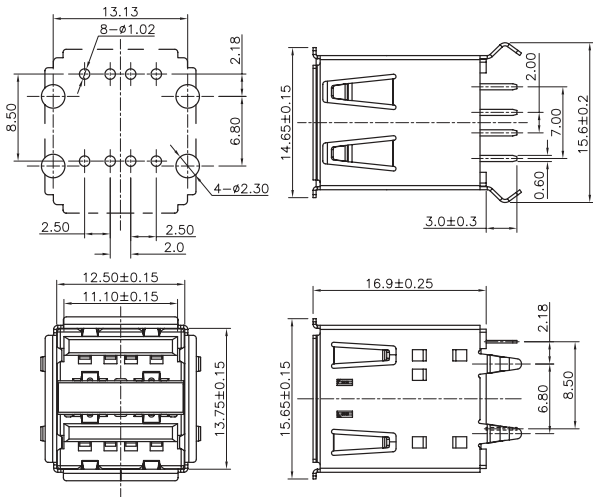
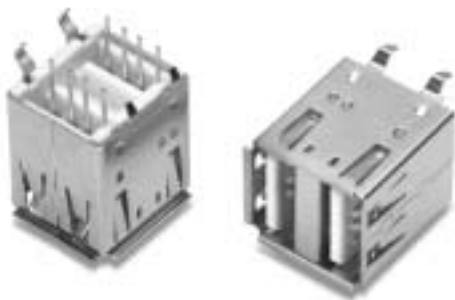
PACKAGING

- Tray

Order Code	Pins	
614004135023	4	-



WR-COM Dual USB Type A Vertical



MATERIAL

- | | |
|-----------------------|--------------------|
| • Insulator material: | PBT |
| • Max temperature: | 220 °C 10 s |
| • Colour: | White |
| • Contact material: | Copper alloy |
| • Contact type: | Stamped |
| • Contact plating: | Selective gold |
| • Shielding: | Brass Ni plated |
| • Quality class: | 1500 mating cycles |

ENVIRONMENTAL

- | | |
|--------------------------|---------------------|
| • Operating temperature: | -40 °C up to 105 °C |
| • Flammability rating | UL94-V0 |
| • Compliance: | Lead free and RoHS |

ELECTRICAL

- | | |
|------------------------------------|-------------|
| • Current rating: | 1 A |
| • Working voltage: | 30 V |
| • Insulation resistance: | >1000 MOhm |
| • Dielectric withstanding voltage: | 750 Vac/mn |
| • Contact resistance: | 20 MOhm max |

SOLDERING

- | | |
|-----------------------|--------------------------------|
| • Solder temperature: | JEDEC lead free wave soldering |
|-----------------------|--------------------------------|

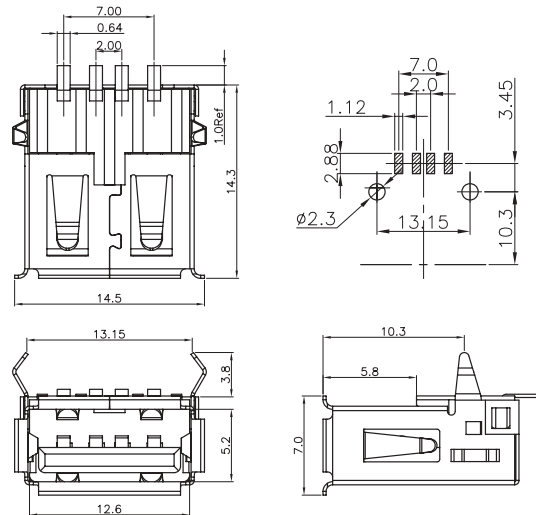
PACKAGING

- Tray

Order Code	Pins	
614008235023	2 x 4	-



WR-COM USB SMT Type A



MATERIAL

- Insulator material: LCP
- Max temperature: 260 °C 10 s
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Brass Ni plated
- Quality class: 1500 mating cycles

ENVIRONMENTAL

- Operating temperature: -40 °C up to 105 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1 A
- Working voltage: 30 V
- Insulation resistance: >1000 MOhm
- Dielectric withstanding voltage: 750 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

- Solder temperature: JEDEC lead free reflow soldering

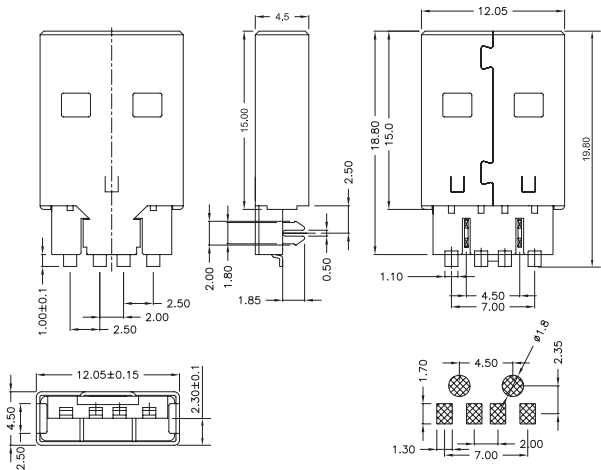
PACKAGING

- Tube

Order Code	Pins	
62900416021	4	-



WR-COM USB Type A SMT With Clip



MATERIAL

- Insulator material: LCP
- Max temperature: 260 °C 10 s
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Brass Ni plated
- Quality class: 1500 mating cycles

ENVIRONMENTAL

- Operating temperature: -40 °C up to 105 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1 A
- Working voltage: 30 V
- Insulation resistance: >1000 MOhm
- Dielectric withstanding voltage: 750 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

- Solder temperature: JEDEC lead free reflow soldering

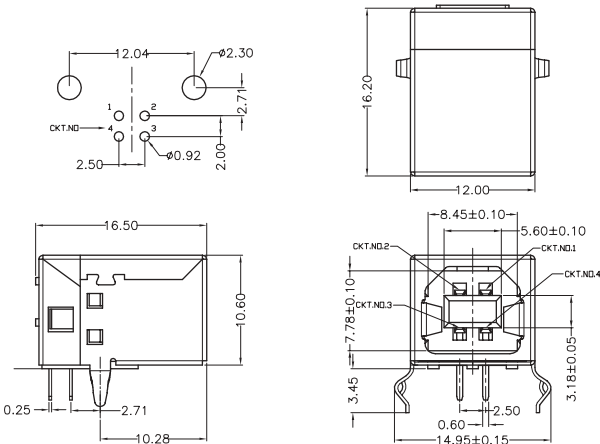
PACKAGING

- Tube

Order Code	Pins	
629004113921	4	-



WR-COM USB Type B



MATERIAL

- Insulator material: PBT
- Max temperature: 220 °C 10 s
- Colour: White
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Brass Ni plated
- Quality class: 1500 mating cycles

ENVIRONMENTAL

- Operating temperature: -40 °C up to 105 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1 A
- Working voltage: 30 V
- Insulation resistance: >1000 MOhm
- Dielectric withstanding voltage: 750 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

- Solder temperature: JEDEC lead free wave soldering

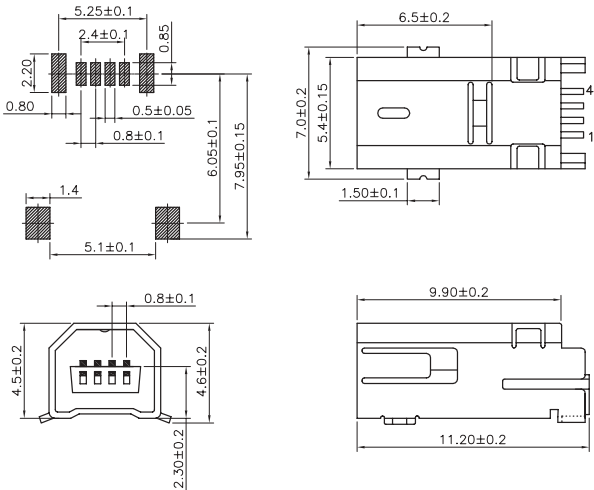
PACKAGING

- Tray

Order Code	Pins	
61400416121	4	-



WR-COM SMT Mini USB Type B



MATERIAL

- Insulator material: LCP
- Max temperature: 260 °C 10 s
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Brass Ni plated
- Quality class: 1500 mating cycles

ENVIRONMENTAL

- Operating temperature: -40 °C up to 105 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1 A
- Working voltage: 30 V
- Insulation resistance: >1000 MOhm
- Dielectric withstanding voltage: 750 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

- Solder temperature: JEDEC lead free reflow soldering

PACKAGING

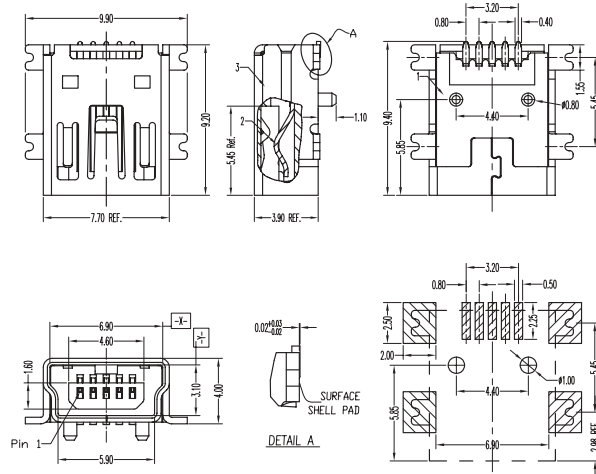
- Tube

09

Order Code	Pins	
65100416121	4	-



WR-COM Mini USB SMT Type B 5 Contacts



MATERIAL

- Insulator material: LCP
- Max temperature: 260 °C 10 s
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Brass Ni plated
- Quality class: 1500 mating cycles

ENVIRONMENTAL

- Operating temperature: -40 °C up to 105 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1 A
- Working voltage: 30 V
- Insulation resistance: >1000 MOhm
- Dielectric withstanding voltage: 750 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

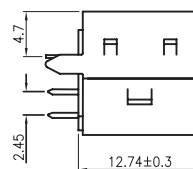
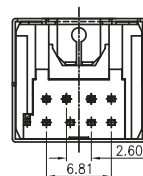
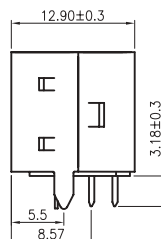
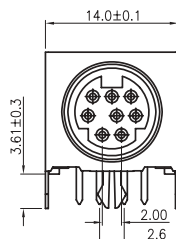
- Solder temperature: JEDEC lead free reflow soldering

PACKAGING

- Tube

Order Code	Pins	
65100516121	5	-

WR-COM Mini DIN Shielded



3



4



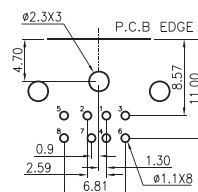
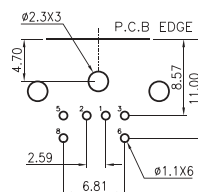
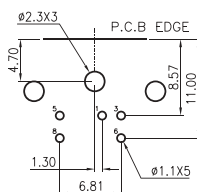
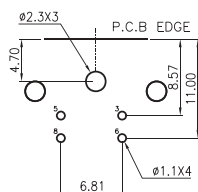
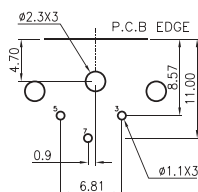
5



6



8



09



MATERIAL

- Insulator material: PBT
- Max temperature: 220 °C 10 s
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Brass Ni plated
- Quality class: 3 as per IEC 60 603-13

ENVIRONMENTAL

- Operating temperature: -40 °C up to 105 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1 A
- Working voltage: 12 V
- Insulation resistance: >100 MOhm
- Dielectric withstanding voltage: 250 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

- Solder temperature: JEDEC lead free wave soldering

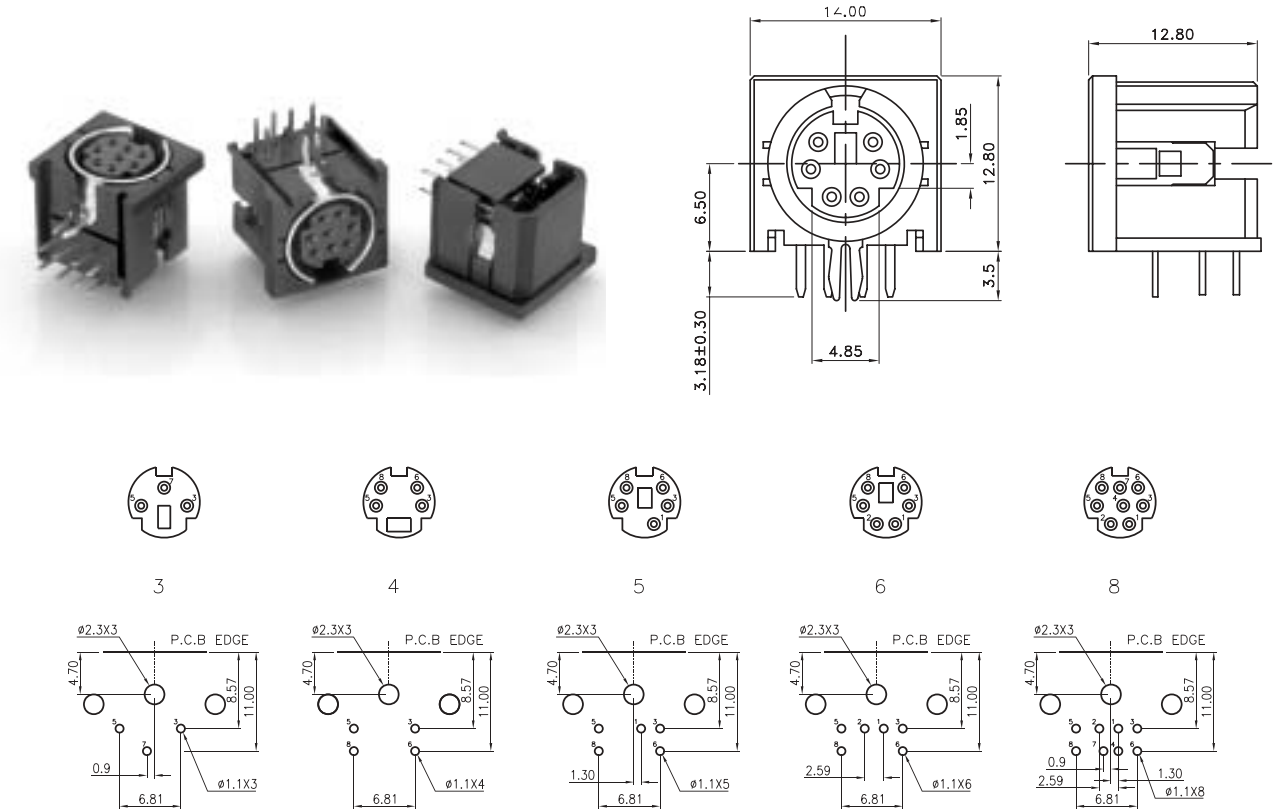
PACKAGING

- Tray

Order Code	Pins	
631003112021	3	-
631004112021	4	-
631005112021	5	-
631006112021	6	-
631008112021	8	-



WR-COM Mini DIN Un-Shielded



MATERIAL

- Insulator material: PBT
- Max temperature: 220 °C 10 s
- Colour: Black
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Quality class: 3 as per IEC 60 603-13

ENVIRONMENTAL

- Operating temperature: -40 °C up to 105 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1 A
- Working voltage: 12 V
- Insulation resistance: >100 MOhm
- Dielectric withstanding voltage: 250 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

- Solder temperature: JEDEC lead free wave soldering

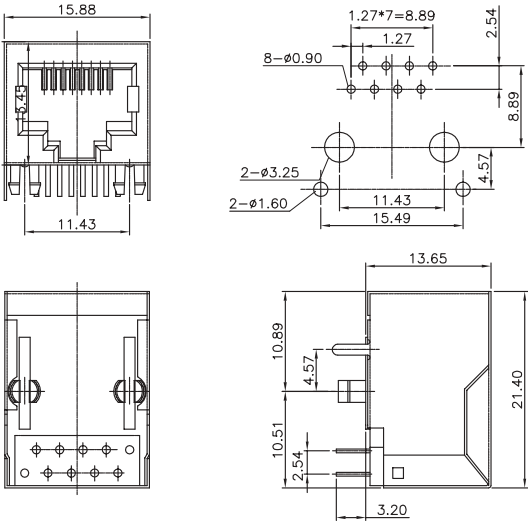
PACKAGING

- Tray

Order Code	Pins	
63100311021	3	-
63100411021	4	-
63100511021	5	-
63100611021	6	-
63100811021	8	-



WR-COM RJ45 Shielded



MATERIAL

- Insulator material: Glass filled polyester
- Max temperature: 220 °C 10 s
- Colour: Black
- Contact material: Phosphore bronze (0.45mm diam.)
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Bronze Ni Plated
- Quality class: 500 mating cycles

ENVIRONMENTAL

- Operating temperature: -25 °C up to 85 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 1.5 A
- Working voltage: 120 Vac
- Insulation resistance: >100 MOhm
- Dielectric withstanding voltage: 500 Vac/mn
- Contact resistance: 20 MOhm max
- System application: CAT 3

SOLDERING

- Solder temperature: JEDEC lead free wave soldering

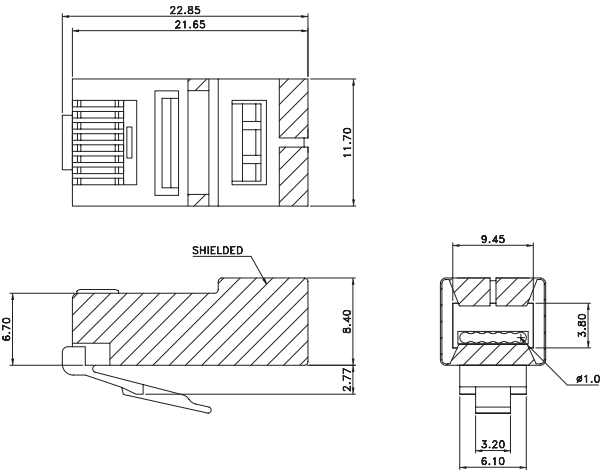
PACKAGING

- Tray

Order Code	Pins	
61500814221	8	-



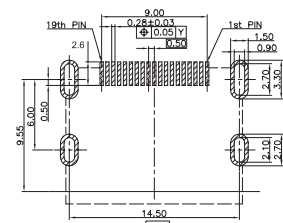
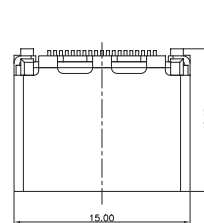
WR-COM RJ45 Plug Shielded



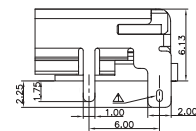
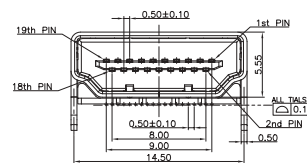
MATERIAL		
• Insulator material:	PBT	
• Colour:	Transparent	
• Contact material:	Copper alloy	
• Contact type:	Stamped	
• Contact plating:	Gold	
• Shielding:	Bronze Ni Plated	
• Quality class:	500 mating cycles	
ENVIRONMENTAL		
• Operating temperature:	-25 °C up to 85 °C	
• Flammability rating	UL94-V0	
• Compliance:	Lead free and RoHS	
ELECTRICAL		
		• Current rating: 1.5 A
		• Working voltage: 120 Vac
		• Insulation resistance: >100 MOhm
		• Dielectric withstanding voltage: 500 Vac/mn
		• Contact resistance: 20 MOhm max
PACKAGING		
		• Bag

Order Code	Pins	
61500814321	8	-

WR-COM Angled SMT HDMI



RECOMMENDED P.C.B PATTERN LAYOUT
T=1.6±0.15



MATERIAL

- Insulator material: LCP
- Max temperature: 260 °C 10 s
- Colour: Black
- Contact material: Phosphore bronze
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Brass tin plated
- Quality class: 3 as per IEC60 603-13

ENVIRONMENTAL

- Operating temperature: -25 °C up to 85 °C
- Flammability rating UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 0.5 A
- Working voltage: 40 V
- Insulation resistance: >100 MΩhm
- Dielectric withstanding voltage: 500 Vac/mn
- Contact resistance: 30 MΩhm max

SOLDERING

- Solder temperature: JEDEC lead free reflow soldering

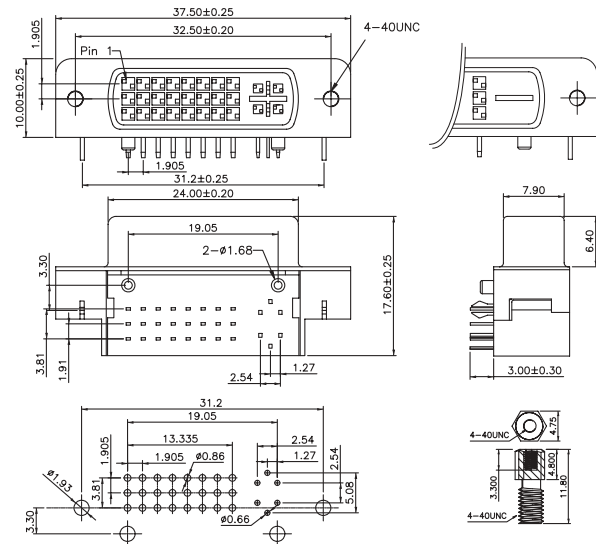
PACKAGING

- Tape & reel

Order Code	Pins	
685119134923	19	-



WR-COM Angled DVI UNC 4-40 Screw



MATERIAL

- Insulator material: PBT
- Max temperature: 220 °C 10 s
- Colour: White
- Contact material: Copper alloy
- Contact type: Stamped
- Contact plating: Selective gold
- Shielding: Steel tin plated
- Quality class: 3 as per IEC60 603-13

ENVIRONMENTAL

- Operating temperature: -25 °C up to 85 °C
- Flammability rating: UL94-V0
- Compliance: Lead free and RoHS

ELECTRICAL

- Current rating: 3 A
- Working voltage: 40 V
- Insulation resistance: >1000 MOhm
- Dielectric withstanding voltage: 500 Vac/mn
- Contact resistance: 20 MOhm max

SOLDERING

- Solder temperature: JEDEC lead free wave soldering

PACKAGING

- Tray

Order Code	Pins	Type
675024321221	24+1	Digital
675024321321	24+5	Analogic & Digital



Notes: