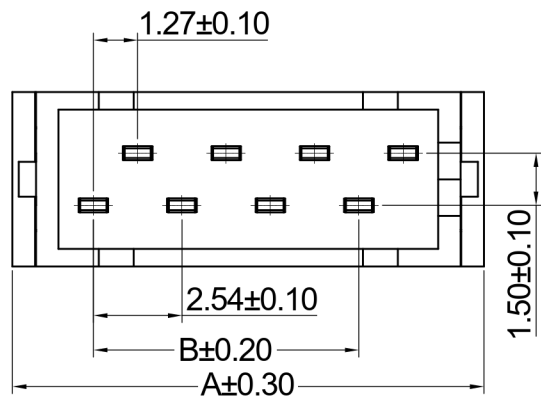
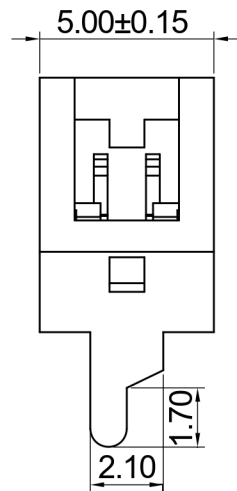
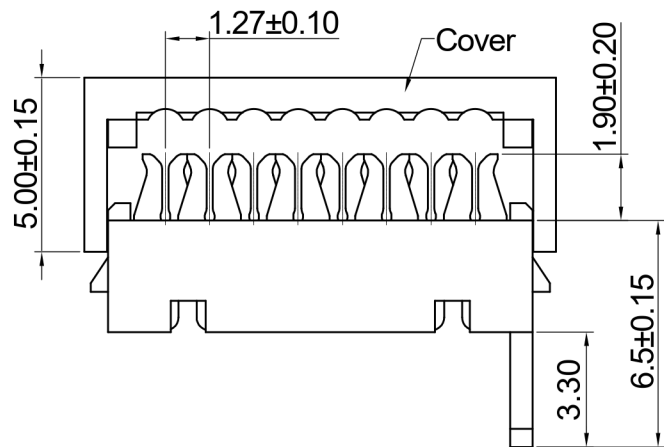


On release of the data sheet,
previous releases are no longer valid.
Dimensions and tolerances
are subject to change.

Copying of this document, and giving it to others and the use or communication of
the contents thereof, are forbidden without express authority. Offenders are liable to
the payment of damages and may be prosecuted in the event of the grant of a patent
or the registration of a utility model or design.



Series **46-699** Type **1** Contacts * **10**
1 Stift zu Kabel Verbinder Male-on-wire connector 04 06 08 10 12 14 16 18 20

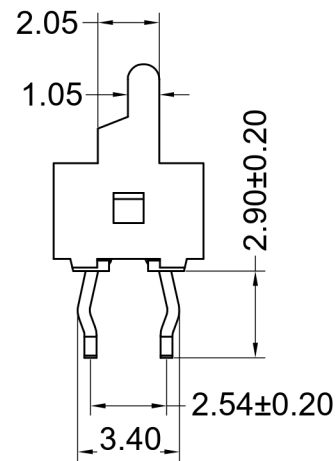
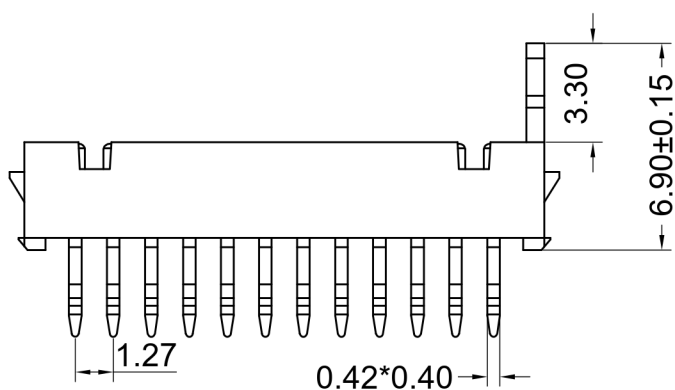
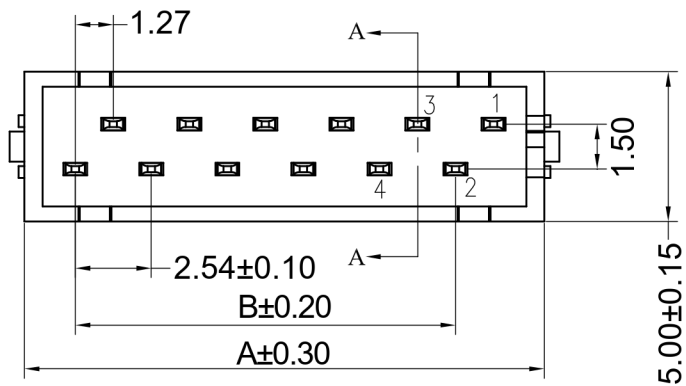
Insulator	Thermoplastic, rated UL94 V-0, red
Contact Material	Phosphor Bronze
Contact Surface	Sn over Ni
Contact Resistance	20 mΩ max.
Insulation Resistance	1000 MΩ min.
Test Voltage	500 V AC/DC
Current Rating	1.0 A
Temperature Range	-40 °C ... +105 °C

Circuit	Dimension	
	A	B
04	8.45	2.54
06	10.99	5.08
08	13.53	7.62
10	16.07	10.16
12	18.61	12.70
14	21.15	15.24
16	23.69	17.78
18	26.23	20.32
20	28.77	22.86

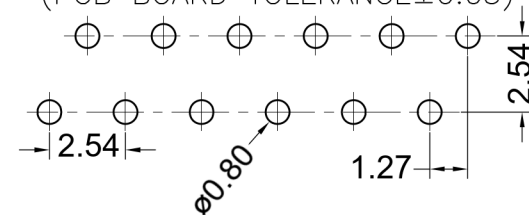
X.X	±0.4	W+P® WE CONNECT IT	Serial Number 46 - 699			
X.XX	±0.25		Part Name Miniature Connectors, 2.54mm Pitch			
X.XXX	±0.15		Creation date 2022-10-27	Drawn AL	Approved PS	Approval date 2022-10-27
Angle	± 3°		REACH (EG) Nr. 1907/2006 RoHS 2011/65/EU compliant	Scale %	Sheet 1/7	
DIM	TOL					

On release of the data sheet.
Previous releases are no longer valid.
Dimensions and tolerances are subject to change.

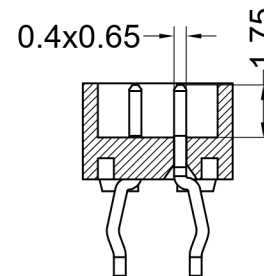
Copying of this document, and giving it to others and the use or communication of the contents thereof, are forbidden without express authority. Offenders are liable to the prosecution of the courts. The copyright in the design of this document is reserved in the event of the grant of a patent or the registration of a utility model or design.



Recommended P.C.B Layout(Top Side)
(PCB BOARD TOLERANCE±0.05)



Section A-A



Circuit	Dimension	
	A	B
04	7.20	2.54
06	9.74	5.08
08	12.28	7.62
10	14.82	10.16
12	17.36	12.70
14	19.90	15.24
16	22.44	17.78
18	24.98	20.32
20	27.52	22.86

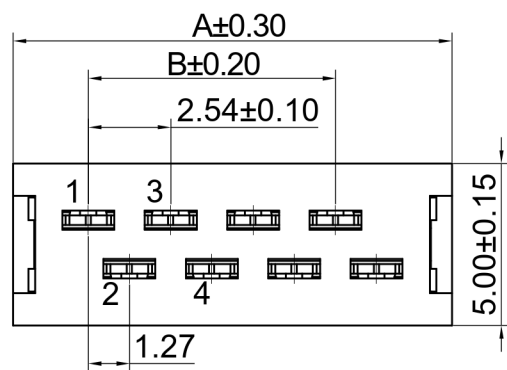
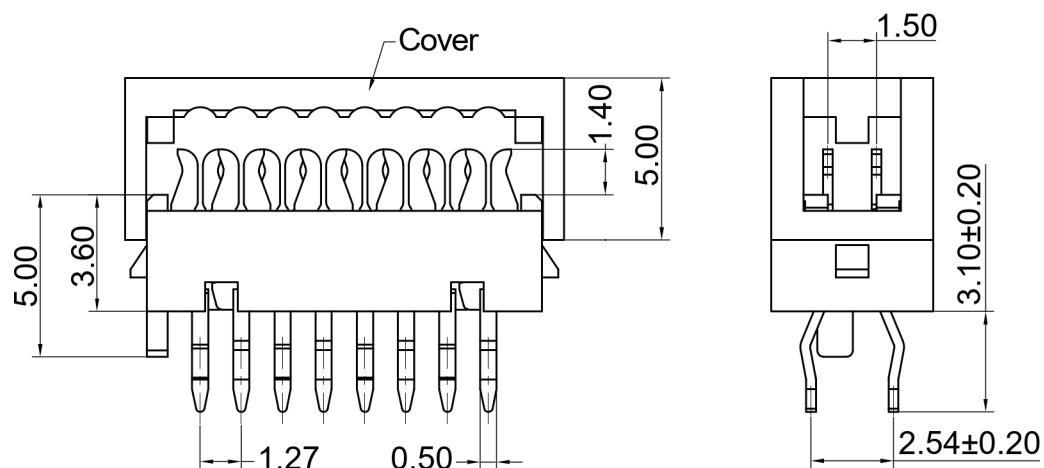
Insulator	Thermoplastic, rated UL94 V-0, red
Contact Material	Phosphor Bronze
Contact Surface	Sn over Ni
Contact Resistance	20 mΩ max.
Insulation Resistance	1000 MΩ min.
Test Voltage	500 V AC/DC
Current Rating	1.0 A
Temperature Range	-40 °C ... +105 °C
Processing	Wave soldering

Series	Type	Contacts *
46-699	7	10
	7 Stiftleiste gerade Male-on-board, straight	04 06 08 10 12 14 16 18 20

X.X	±0.4	Serial Number 46 - 699			
X.XX	±0.25	Part Name Miniature Connectors, 2.54mm Pitch			
X.XXX	±0.15	Creation date 2022-10-27	Drawn AL	Approved PS	Approval date 2022-10-27
Angle	± 3°	REACH (EG) Nr. 1907/2006 RoHS 2011/65/EU compliant		Scale %	Sheet 2/7
DIM	TOL	WE CONNECT IT			

On release of the data sheet,
previous releases are no longer valid.
Dimensions and tolerances
are subject to change.

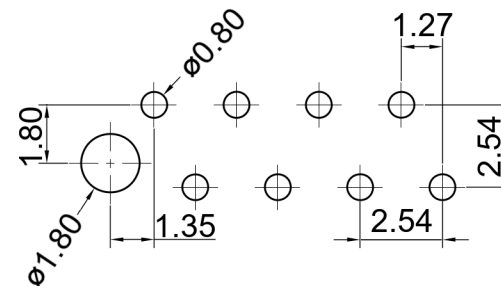
Copying of this document, and giving it to others and the use or communication of
the contents thereof, are forbidden without express authority. Offenders are liable to
the payment of damages and may be prosecuted in the event of the grant of a patent
or the registration of a utility model or design.



Series **46-699** Type **2** Contacts * **10**
2 Leiterplattenverbinder
Paddle board connector 04 06 08 10 12
14 16 18 20

Insulator Thermoplastic, rated UL94 V-0, red
Contact Material Phosphor Bronze
Contact Surface Sn over Ni
Contact Resistance 20 mΩ max.
Insulation Resistance 1000 MΩ min.
Test Voltage 500 V AC/DC
Current Rating 1.0 A
Temperature Range -40 °C ... +105 °C
Processing Wave soldering

Recommended P.C.B Layout(Top Side)
(PCB BOARD TOLERANCE±0.05)



Circuit	Dimension	
	A	B
04	8.45	2.54
06	10.99	5.08
08	13.53	7.62
10	16.07	10.16
12	18.61	12.70
14	21.15	15.24
16	23.69	17.78
18	26.23	20.32
20	28.77	22.86

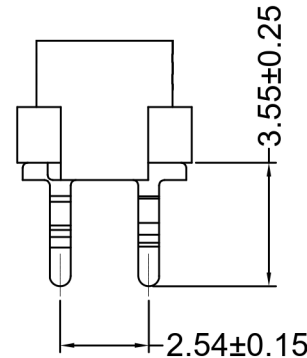
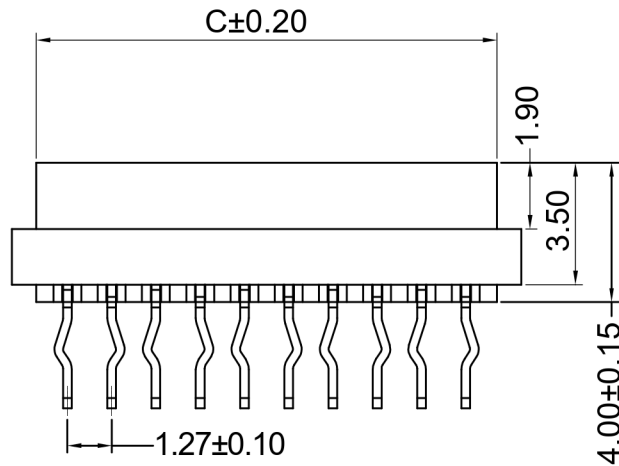
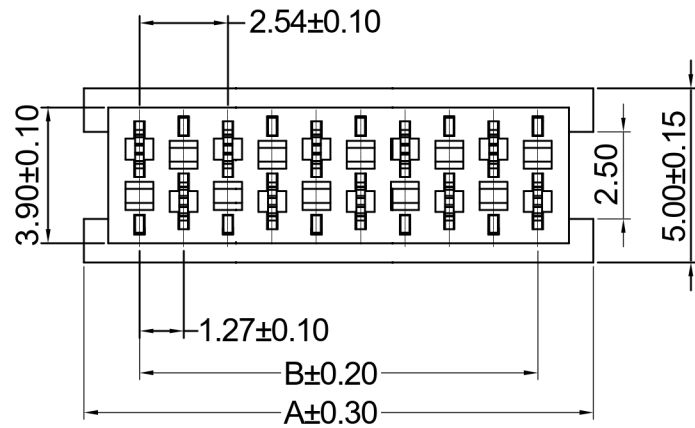
X.X	±0.4
X.XX	±0.25
X.XXX	±0.15
Angle	± 3°
DIM	TOL



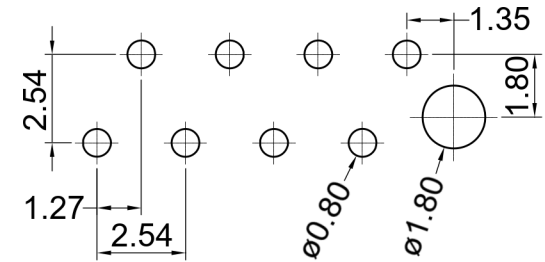
Serial Number 46 - 699			
Part Name Miniature Connectors, 2.54mm Pitch			
Creation date 2022-10-27	Drawn AL	Approved PS	Approval date 2022-10-27
REACH (EG) Nr. 1907/2006 RoHS 2011/65/EU compliant		Scale %	Sheet 3/7

On release of the data sheet,
previous releases are no longer valid.
Product specifications and dimensions
are subject to change.

Copying of this document, and giving it to others and the use or communication of
the contents thereof, are forbidden without express authority. Offenders are liable to
the payment of damages and may be prosecuted in the event of the grant of a patent
or the registration of a utility model or design.



Recommended P.C.B Layout (Top Side) (PCB Board Tolerance ±0.05)



Specification & Ordering Information:

Circuit	Dimension		
	A	B	C
04	7.00	3.81	5.60
06	9.54	6.35	8.14
08	12.08	8.89	10.68
10	14.62	11.43	13.22
12	17.16	13.97	15.76
14	19.70	16.51	18.30
16	22.24	19.05	20.84
18	24.78	21.59	23.38
20	27.32	24.13	25.92

Series **46-699** **Type** **3** **Contacts *** **10** **Locking** **[]**
3 Buchse, gerade
Female-on-board, straight
04 06 08 10 12
14 16 18 20
[] Ohne Rast-Clips
W/o locks

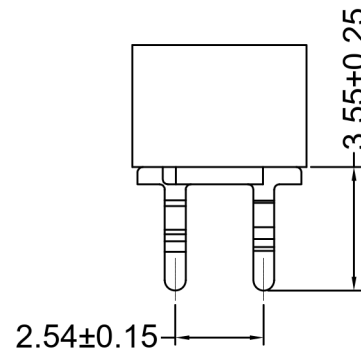
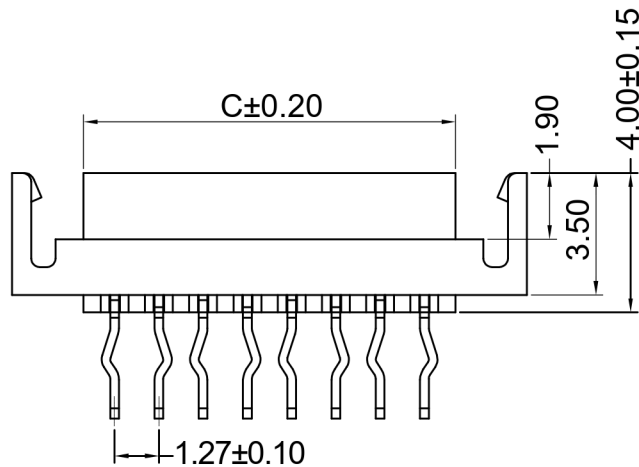
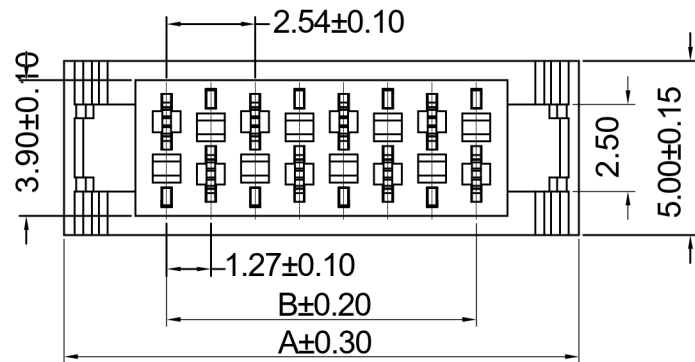
X.X	±0.4
X.XX	±0.25
X.XXX	±0.15
Angle	± 3°
DIM	TOL



Serial Number 46 - 699			
Part Name Miniature Connectors, 2.54mm Pitch			
Creation date 2022-10-27	Drawn AL	Approved PS	Approval date 2022-10-27
REACH (EG) Nr. 1907/2006 RoHS 2011/65/EU compliant		Scale %	Sheet 4/7

On release of the data sheet,
previous releases are no longer valid.
Dimensions and tolerances
are subject to change.

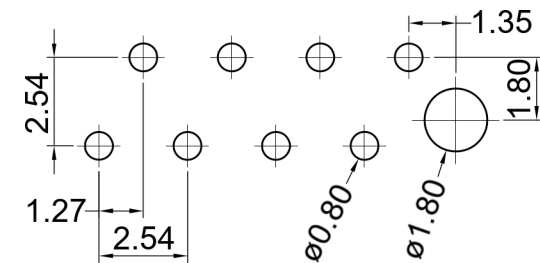
Copying of this document, and giving it to others and the use or communication of
the contents thereof, are forbidden without express authority. Offenders are liable to
the payment of damages. The copyright in the event of the grant of a patent
or the registration of a utility model or design.



Series **46-699** **Type** **3** **Contacts *** **10** **Locking** **1**
3 Buchse, gerade
Female-on-board, straight
04 06 08 10 12
14 16 18 20
1 Mit Rast-Clips (für Buchse)
With locks (female connectors)

Insulator	Thermoplastic, rated UL94 V-0, red
Contact Material	Phosphor Bronze
Contact Surface	Sn over Ni
Contact Resistance	20 mΩ max.
Insulation Resistance	1000 MΩ min.
Test Voltage	500 V AC/DC
Current Rating	1.0 A
Temperature Range	-40 °C ... +105 °C
Processing	Wave soldering

Recommended P.C.B Layout (Top Side)
(PCB Board Tolerance ±0.05)



Specification & Ordering Information:

Circuit	Dimension		
	A	B	C
04	9.70	3.81	5.60
06	12.24	6.35	8.14
08	14.78	8.89	10.68
10	17.32	11.43	13.22
12	19.86	13.97	15.76
14	22.40	16.51	18.30
16	24.94	19.05	20.84
18	27.48	21.59	23.38
20	30.02	24.13	25.92

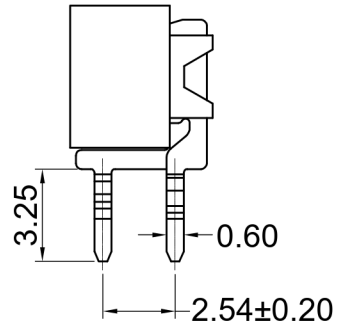
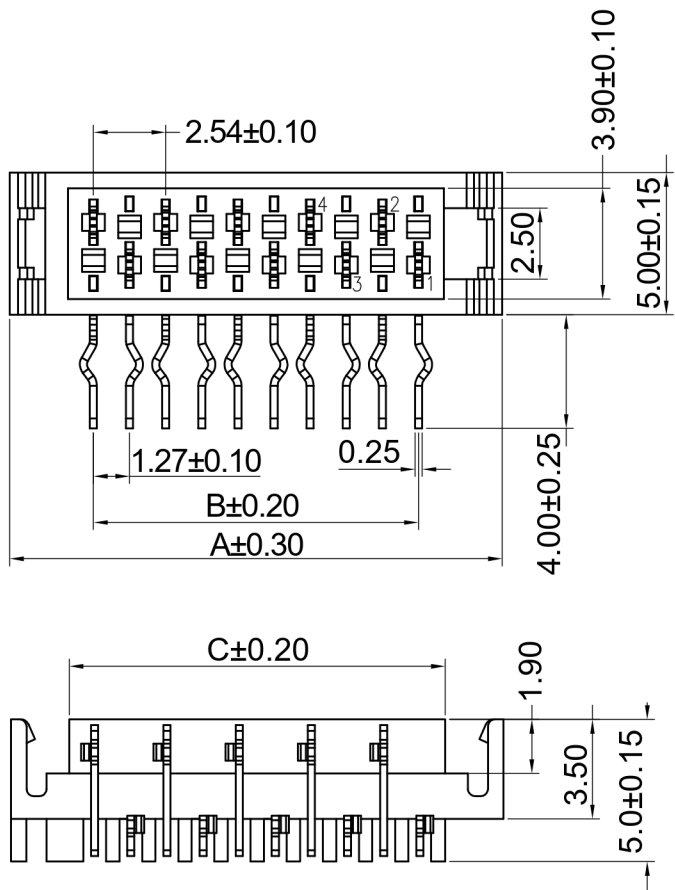
X.X	±0.4
X.XX	±0.25
X.XXX	±0.15
Angle	± 3°
DIM	TOL



Serial Number 46 - 699			
Part Name Miniature Connectors, 2.54mm Pitch			
Creation date 2022-10-27	Drawn AL	Approved PS	Approval date 2022-10-27
REACH (EG) Nr. 1907/2006 RoHS 2011/65/EU compliant		Scale %	Sheet 5/7

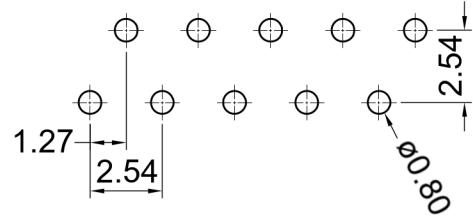
On release of the data sheet,
previous releases are no longer valid.
Dimensions and tolerances are subject to change.

Copying of this document, and giving it to others and the use or communication of
the contents thereof, are forbidden without express authority. Offenders are liable to
the payment of damages and may be prosecuted in the event of the grant of a patent
or the registration of a utility model or design.



Insulator	Thermoplastic, rated UL94 V-0, red
Contact Material	Phosphor Bronze
Contact Surface	Sn over Ni
Contact Resistance	20 mΩ max.
Insulation Resistance	1000 MΩ min.
Test Voltage	500 V AC/DC
Current Rating	1.0 A
Temperature Range	-40 °C ... +105 °C
Processing	Wave soldering

Recommended P.C.B Layout (Top Side)
(PCB Board Tolerance ± 0.05)



Specification & Ordering Information:

Circuit	Dimension		
	A	B	C
04	9.70	3.81	5.60
06	12.24	6.35	8.14
08	14.78	8.89	10.68
10	17.32	11.43	13.22
12	19.86	13.97	15.76
14	22.40	16.51	18.30
16	24.94	19.05	20.84
18	27.48	21.59	23.38
20	30.02	24.13	25.92

Series

46-699

Type

4

4 Buchse, gewinkelt
Female-on-board,
right-angled

Contacts *

10

04 06 08 10 12
14 16 18 20

Locking

1

1 Mit Rast-Clips (für Buchse)
With locks (female connector)

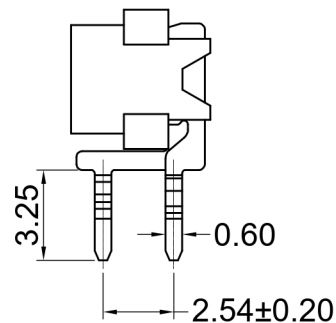
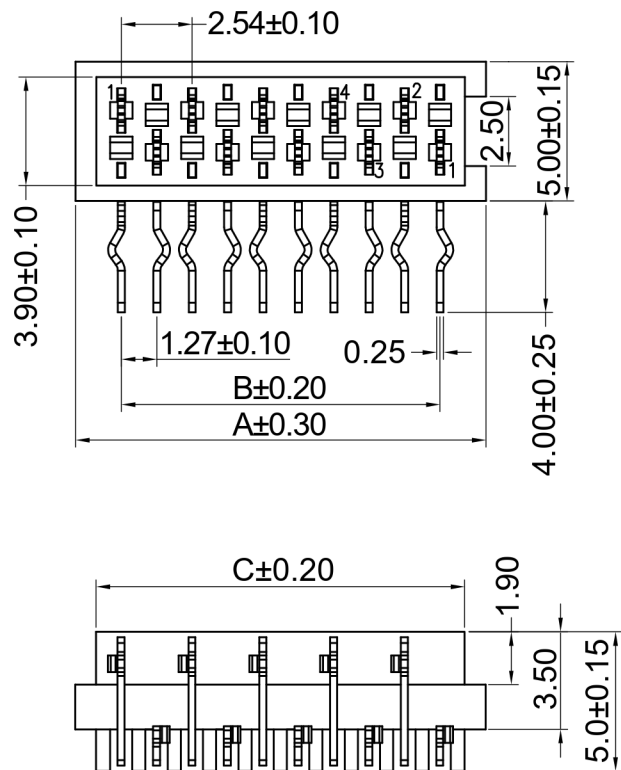
X.X	± 0.4
X.XX	± 0.25
X.XXX	± 0.15
Angle	$\pm 3^\circ$
DIM	TOL



Serial Number 46 - 699			
Part Name Miniature Connectors, 2.54mm Pitch			
Creation date 2022-10-27	Drawn AL	Approved PS	Approval date 2022-10-27
REACH (EG) Nr. 1907/2006 RoHS 2011/65/EU compliant		Scale %	Sheet 6/7

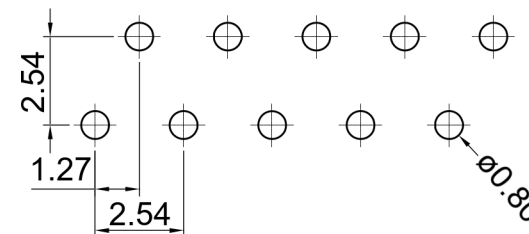
On release of the data sheet,
previous releases are no longer valid.
Dimensions and tolerances
are subject to change.

Copying of this document, and giving it to others and the use or communication of
the contents thereof, are forbidden without express authority. Offenders are liable to
the payment of damages and may be prosecuted in the event of the grant of a patent
or the registration of a utility model or design.



Insulator	Thermoplastic, rated UL94 V-0, red
Contact Material	Phosphor Bronze
Contact Surface	Sn over Ni
Contact Resistance	20 mΩ max.
Insulation Resistance	1000 MΩ min.
Test Voltage	500 V AC/DC
Current Rating	1.0 A
Temperature Range	-40 °C ... +105 °C
Processing	Wave soldering

Recommended P.C.B Layout (Top Side)
(PCB Board Tolerance ± 0.05)



Specification & Ordering
Information:

Circuit	Dimension		
	A	B	C
04	7.00	3.81	5.60
06	9.54	6.35	8.14
08	12.08	8.89	10.68
10	14.62	11.43	13.22
12	17.16	13.97	15.76
14	19.70	16.51	18.30
16	22.24	19.05	20.84
18	24.78	21.59	23.38
20	27.32	24.13	25.92

Series **46-699** Type **4** Contacts * **10** Locking **[]**

4 Buchse, gewinkelt
Female-on-board,
right-angled

04 06 08 10 12
14 16 18 20

[] Ohne Rast-Clips
W/o locks

X.X	± 0.40	Serial Number 46 - 699			
X.XX	± 0.25	Part Name Miniature Connectors, 2.54mm Pitch			
X.XXX	± 0.15	Creation date 2022-10-27	Drawn AL	Approved PS	Approval date 2022-10-27
Angle	$\pm 3^\circ$	REACH (EG) Nr. 1907/2006 RoHS 2011/65/EU compliant		Scale %	Sheet 7/7
DIM	TOL	WE CONNECT IT			