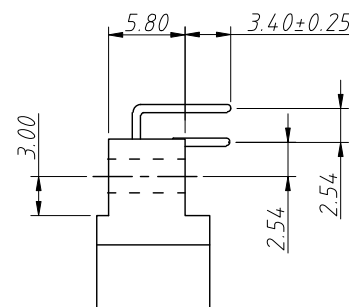
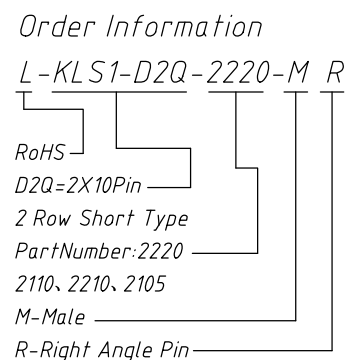
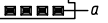
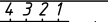
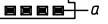
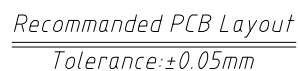




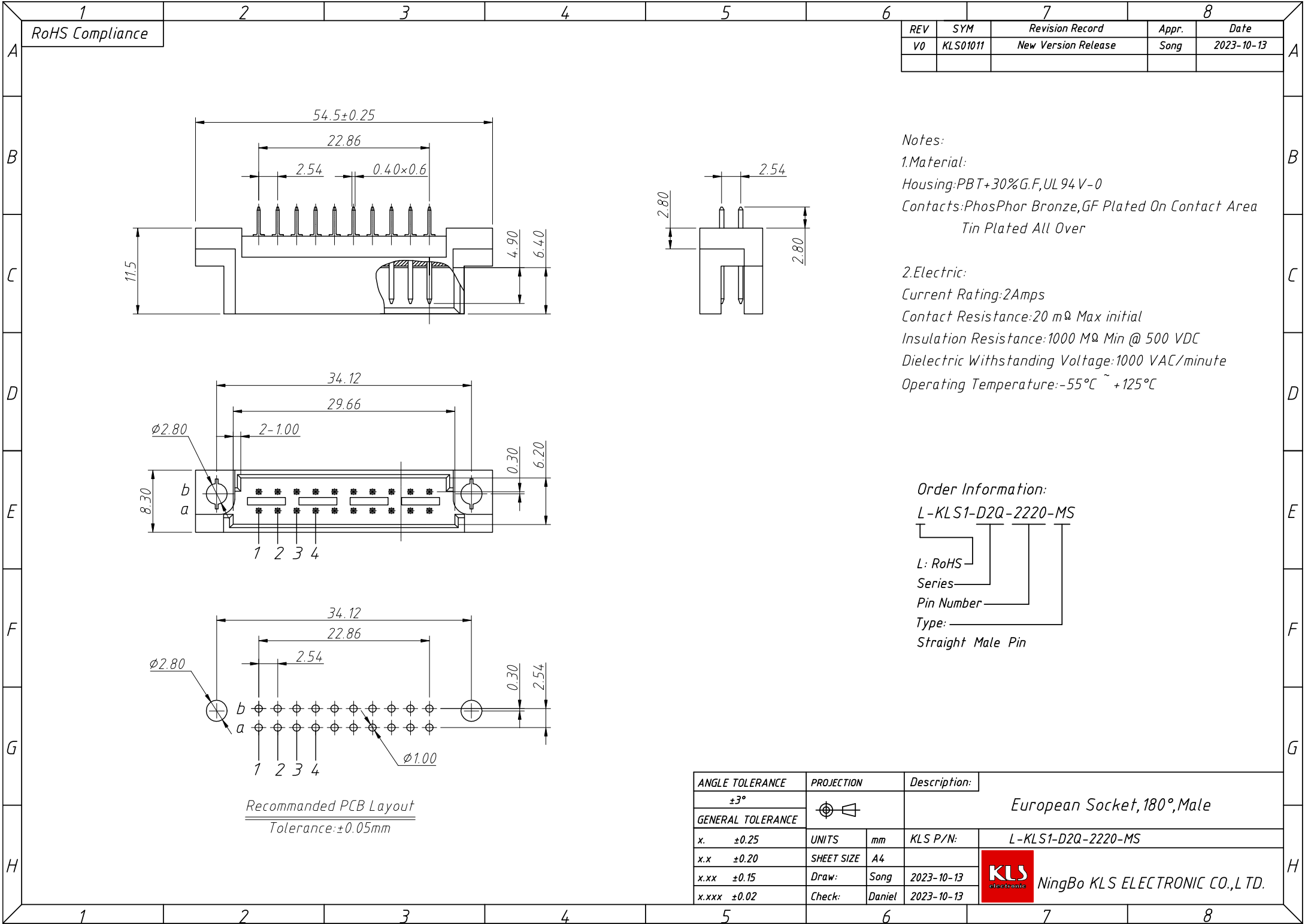
Electrical:
Current Rating: 2 Amps
Contact Resistance: 20 mΩ initial
Insulation Resistance: 1000 MΩ min @ 500 V DC
Dielectric Withstanding Voltage: 1000 V AC/minute
Operating Temperature: -55°C To +125°C



<i>Pitch</i>	<i>Position</i>	<i>Rows with Contact</i>	<i>Contact Arrange</i>	<i>Part Number</i>
2.54mm	20	<i>a b</i>		2220
	10	<i>a -</i>		2110
5.08mm	10	<i>a b</i>		2210
	5	<i>a -</i>		2105



ANGLE TOLERANCE		PROJECTION		Description:		
±3°				DIN 41612 Connector, 2x10Pin Two Row, Male, Right Angle Pin		
GENERAL TOLERANCE		UNITS	mm	KLS P/N:	L-KLS1-D2Q-XXXX-MR	
.x	±0.20	SHEET SIZE	A4		NingBo KLS ELECTRONIC CO.,L TD.	
.xx	±0.15	Draw:	Song			2025-09-02
.xxx	±0.02	Check:	Daniel			2025-09-02



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RoHS Compliance

7		8	
REV	SYM	Revision Record	Appr.
V0	KLS01011	New Version Release	Song
			Date
			2023-10-13

Notes:

1.Material:

Housing:PBT+30%G.F,UL 94 V-0

Contacts:PhosPhor Bronze,GF Plated On Contact Area

Tin Plated All Over

2.Electric:

Current Rating:2Amps

Contact Resistance:20 mΩ Max initial

Insulation Resistance:1000 MΩ Min @ 500 VDC

Dielectric Withstanding Voltage:1000 VAC/minute

Operating Temperature:-55℃ ~ +125℃

Order Information:

L-KLS1-D2Q-2220-MS

L: RoHS

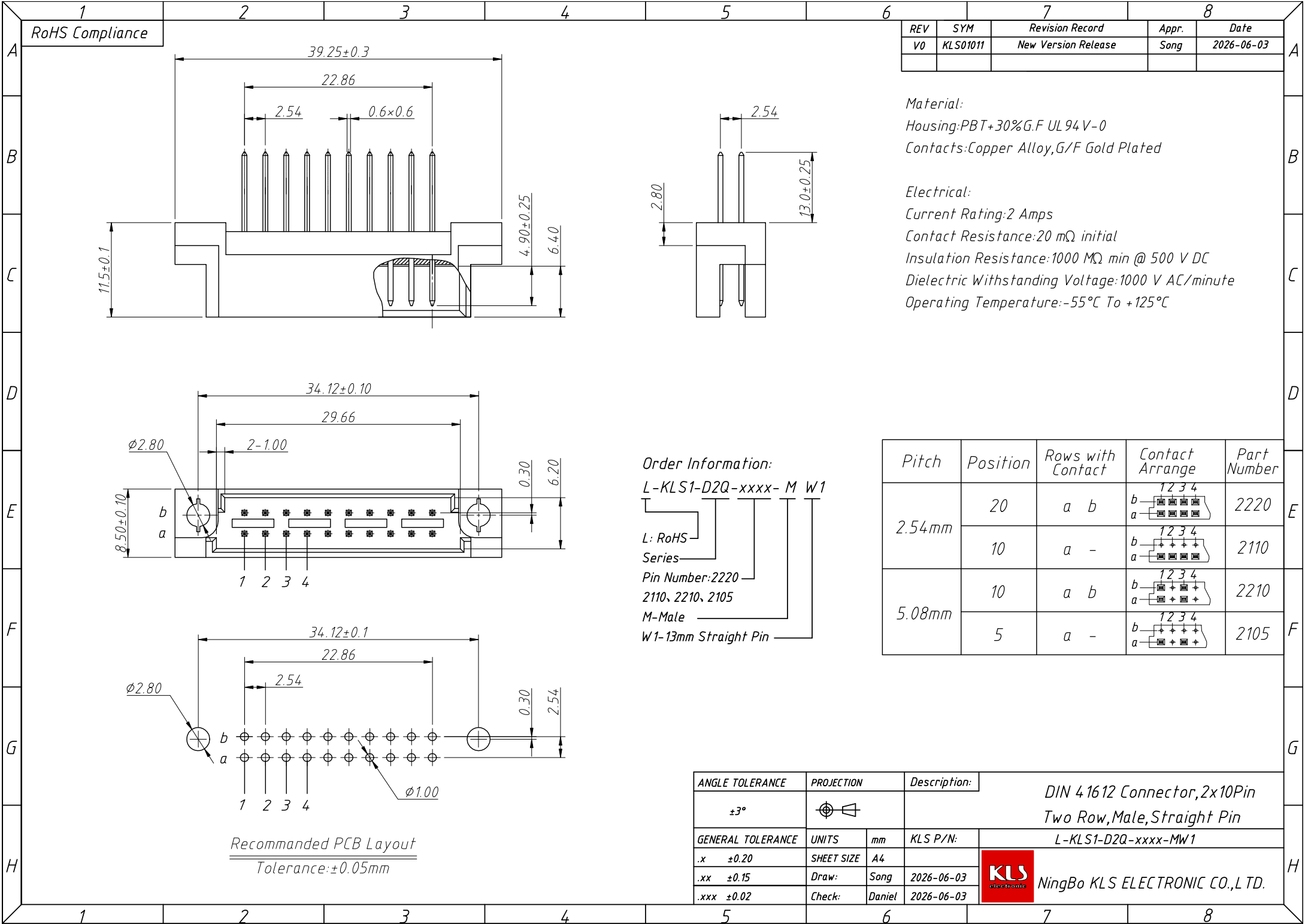
Series

Pin Number

Type:

Straight Male Pin

ANGLE TOLERANCE		PROJECTION		Description:	
±3°				European Socket, 180°, Male	
GENERAL TOLERANCE					
x.	±0.25	UNITS	mm	KLS P/N:	L-KLS1-D2Q-2220-MS
x.x	±0.20	SHEET SIZE	A4	NingBo KLS ELECTRONIC CO.,L TD.	
x.xx	±0.15	Draw:	Song		
x.xxx	±0.02	Check:	Daniel		



Material:
Housing:PBT+30%G.F UL 94 V-0
Contacts:Copper Alloy,G/F Gold Plated

Electrical:
Current Rating:2 Amps
Contact Resistance:20 mΩ initial
Insulation Resistance:1000 MΩ min @ 500 V DC
Dielectric Withstanding Voltage:1000 V AC/minute
Operating Temperature:-55°C To +125°C

Order Information:
L-KLS1-D2Q-xxxx- M W1

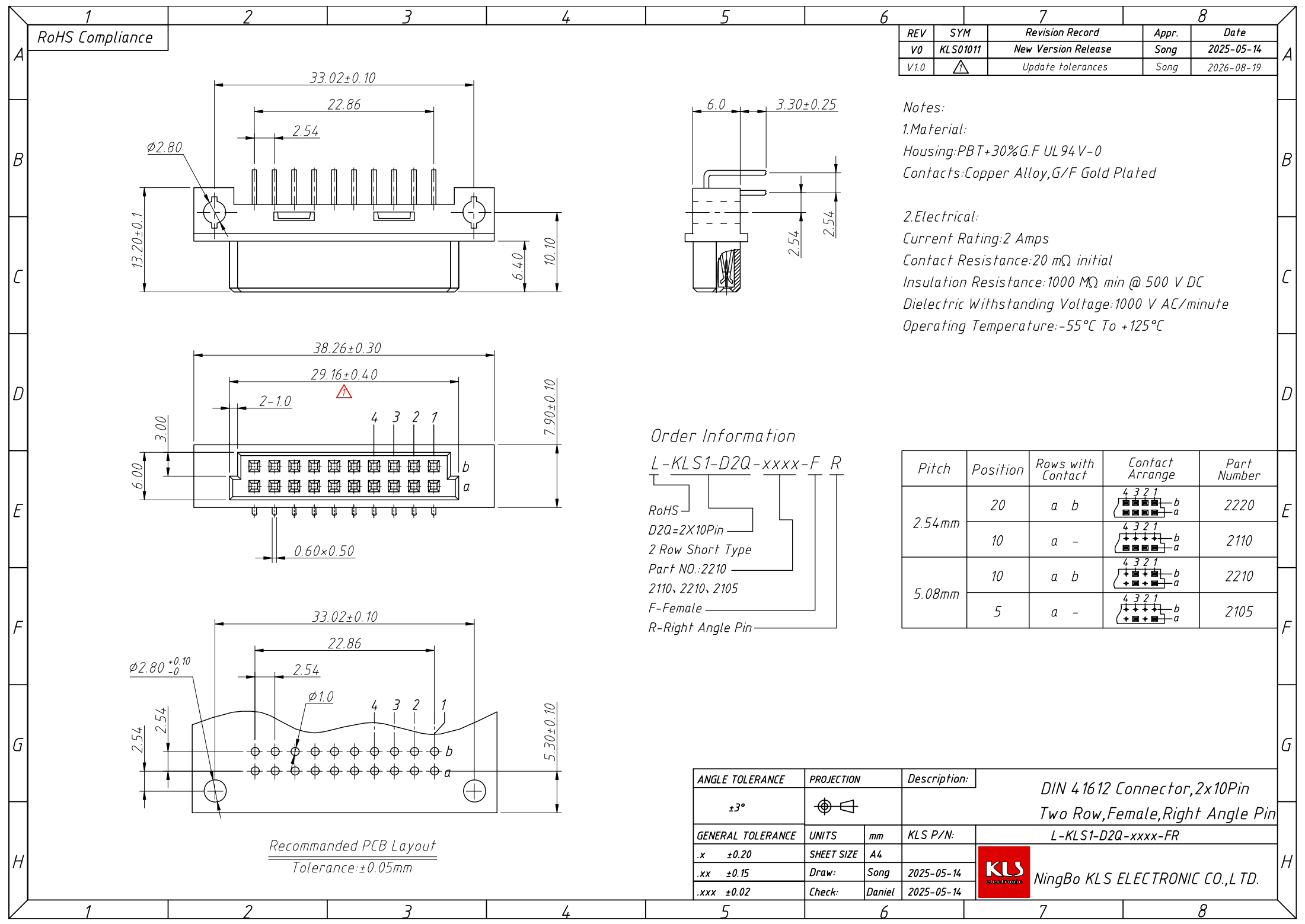
L: RoHS
Series
Pin Number:2220
2110、2210、2105
M-Male
W1-13mm Straight Pin

Pitch	Position	Rows with Contact	Contact Arrange	Part Number
2.54mm	20	a b		2220
	10	a -		2110
5.08mm	10	a b		2210
	5	a -		2105

Recommended PCB Layout
Tolerance:±0.05mm

ANGLE TOLERANCE	PROJECTION	Description:
±3°		DIN 41612 Connector,2x10Pin Two Row,Male,Straight Pin
GENERAL TOLERANCE	UNITS	mm
.x ±0.20	SHEET SIZE	A4
.xx ±0.15	Draw:	Song
.xxx ±0.02	Check:	Daniel

NingBo KLS ELECTRONIC CO.,LTD.



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RoHS Compliance

REV	SYM	Revision Record	Appr.	Date
V0	KLS01011	New Version Release	Song	2025-05-14
V1.0	△	Update tolerances	Song	2026-08-19

Notes:
1.Material:
Housing:PBT+30%G.F UL 94 V-0
Contacts:Copper Alloy,G/F Gold Plated

2.Electrical:
Current Rating:2 Amps
Contact Resistance:20 mΩ initial
Insulation Resistance:1000 MΩ min @ 500 V DC
Dielectric Withstanding Voltage:1000 V AC/minute
Operating Temperature:-55℃ To +125℃

Order Information

L-KLS1-D2Q-xxxx-F R
RoHS
D2Q=2X10Pin
2 Row Short Type
Part NO.:2210
2110、2210、2105
F-Female
R-Right Angle Pin

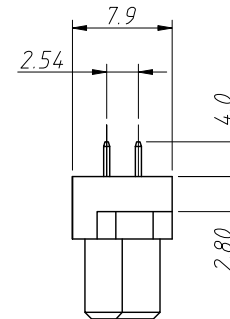
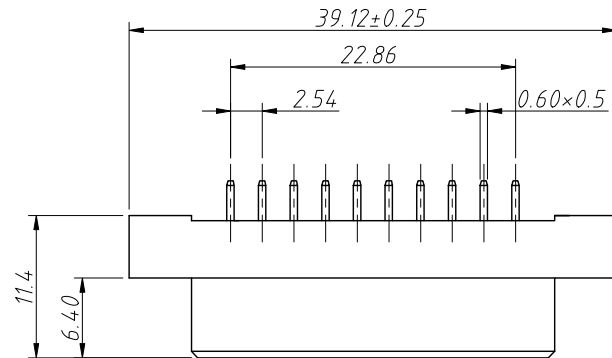
Pitch	Position	Rows with Contact	Contact Arrange	Part Number
2.54mm	20	a b		2220
	10	a -		2110
5.08mm	10	a b		2210
	5	a -		2105

ANGLE TOLERANCE	PROJECTION	Description:
±3°		DIN 41612 Connector,2x10Pin Two Row,Female,Right Angle Pin
GENERAL TOLERANCE	UNITS	mm
.x ±0.20	SHEET SIZE	A4
.xx ±0.15	Draw:	Song
.xxx ±0.02	Check:	Daniel
		KLS P/N: L-KLS1-D2Q-xxxx-FR

NingBo KLS ELECTRONIC CO.,L TD.

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RoHS Compliance

REV	SYM	Revision Record	Appr.	Date
V0	KLS01011	New Version Release	Song	2023-10-13



Notes:

1.Material:

Housing:PBT+30%G.F,UL 94 V-0

Contacts:PhosPhor Bronze,GF Plated On Contact Area
Tin Plated All Over

2.Electric:

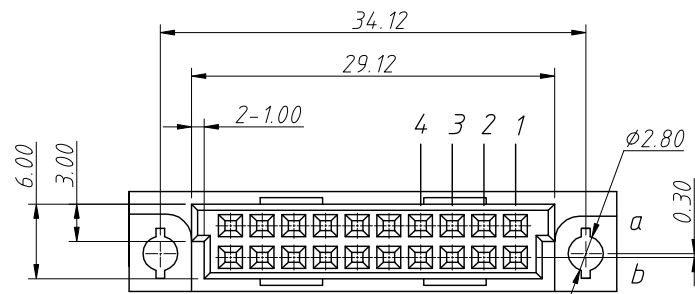
Current Rating:2Amps

Contact Resistance:20 mΩ Max initial

Insulation Resistance:1000 MΩ Min @ 500 VDC

Dielectric Withstanding Voltage:1000 VAC/minute

Operating Temperature:-55℃ ~ +125℃



Order Information:

L-KLS1-D2Q-2220-FS

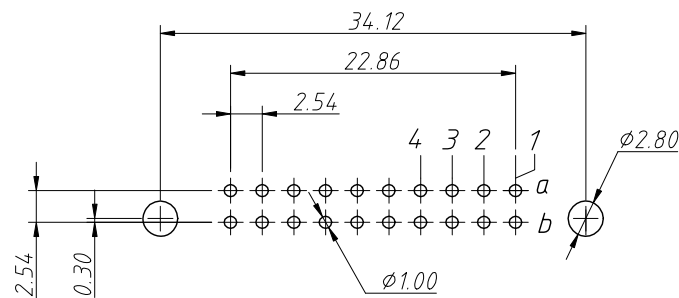
L: RoHS

Series

Pin Number

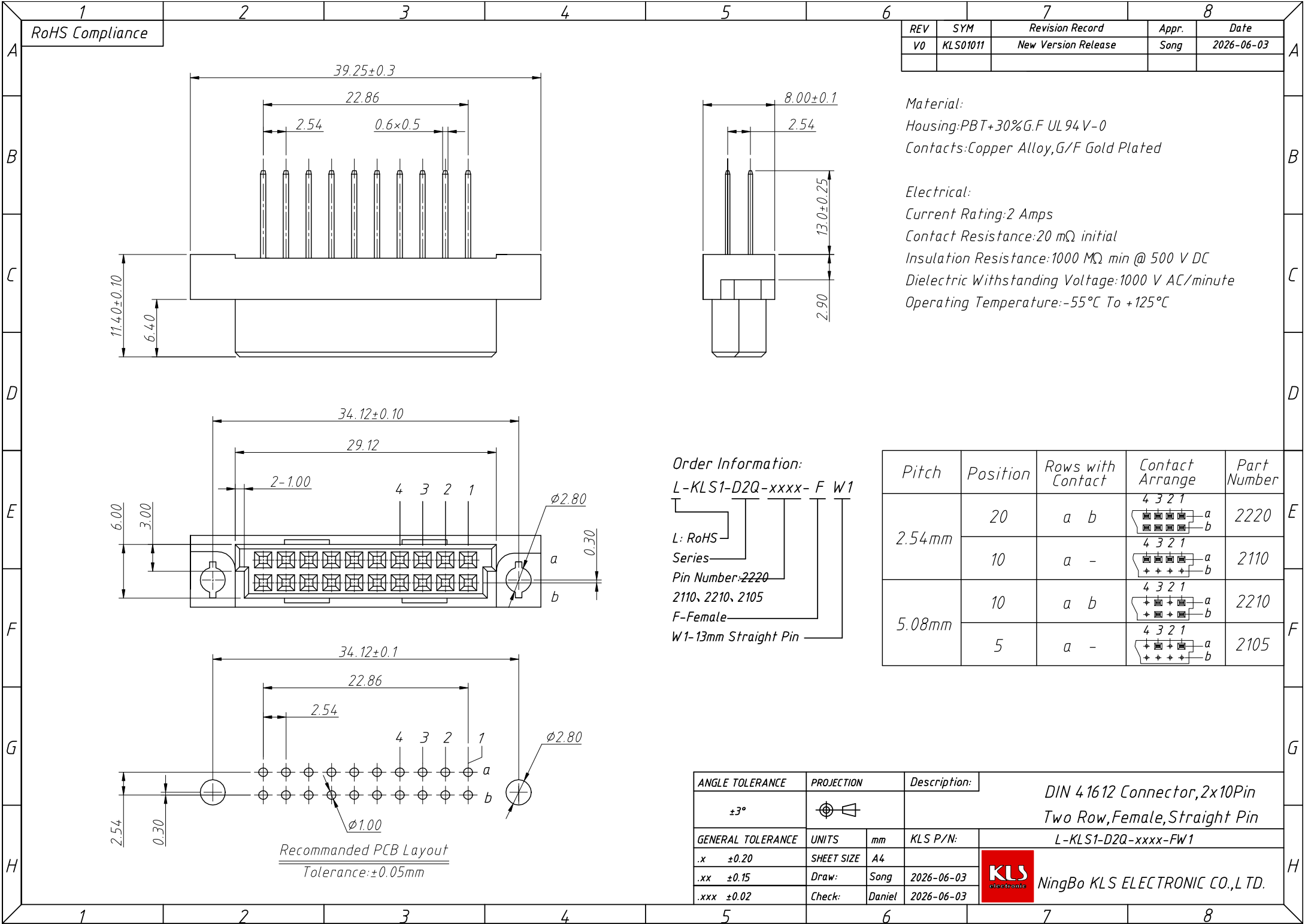
Type:

Straight Female Pin



Recommended PCB Layout
Tolerance:±0.05mm

ANGLE TOLERANCE	PROJECTION	Description:
±3°		European Socket,180°,Female
GENERAL TOLERANCE		
x. ±0.25	UNITS	mm
x.x ±0.20	SHEET SIZE	A4
x.xx ±0.15	Draw:	Song
x.xxx ±0.02	Check:	Daniel
KLS P/N:		L-KLS1-D2Q-2220-FS
KLS ELECTRONIC		NingBo KLS ELECTRONIC CO.,LTD.



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RoHS Compliance

7		8	
REV	SYM	Revision Record	Appr.
V0	KLS01011	New Version Release	Song
		Date	
		2026-06-03	

Material:
Housing:PBT+30%G.F UL 94 V-0
Contacts:Copper Alloy,G/F Gold Plated

Electrical:
Current Rating:2 Amps
Contact Resistance:20 mΩ initial
Insulation Resistance:1000 MΩ min @ 500 V DC
Dielectric Withstanding Voltage:1000 V AC/minute
Operating Temperature:-55°C To +125°C

Order Information:
L-KLS1-D2Q-xxxx- F W1

L: RoHS
Series
Pin Number:2220
2110, 2210, 2105
F-Female
W1-13mm Straight Pin

Pitch	Position	Rows with Contact	Contact Arrange	Part Number
2.54mm	20	a b		2220
	10	a -		2110
5.08mm	10	a b		2210
	5	a -		2105

ANGLE TOLERANCE		PROJECTION		Description:	
±3°				DIN 41612 Connector, 2x10Pin Two Row, Female, Straight Pin	
GENERAL TOLERANCE		UNITS	mm	KLS P/N:	
.x	±0.20	SHEET SIZE	A4	L-KLS1-D2Q-xxxx-FW1	
.xx	±0.15	Draw:	Song	2026-06-03	NingBo KLS ELECTRONIC CO.,L TD.
.xxx	±0.02	Check:	Daniel	2026-06-03	