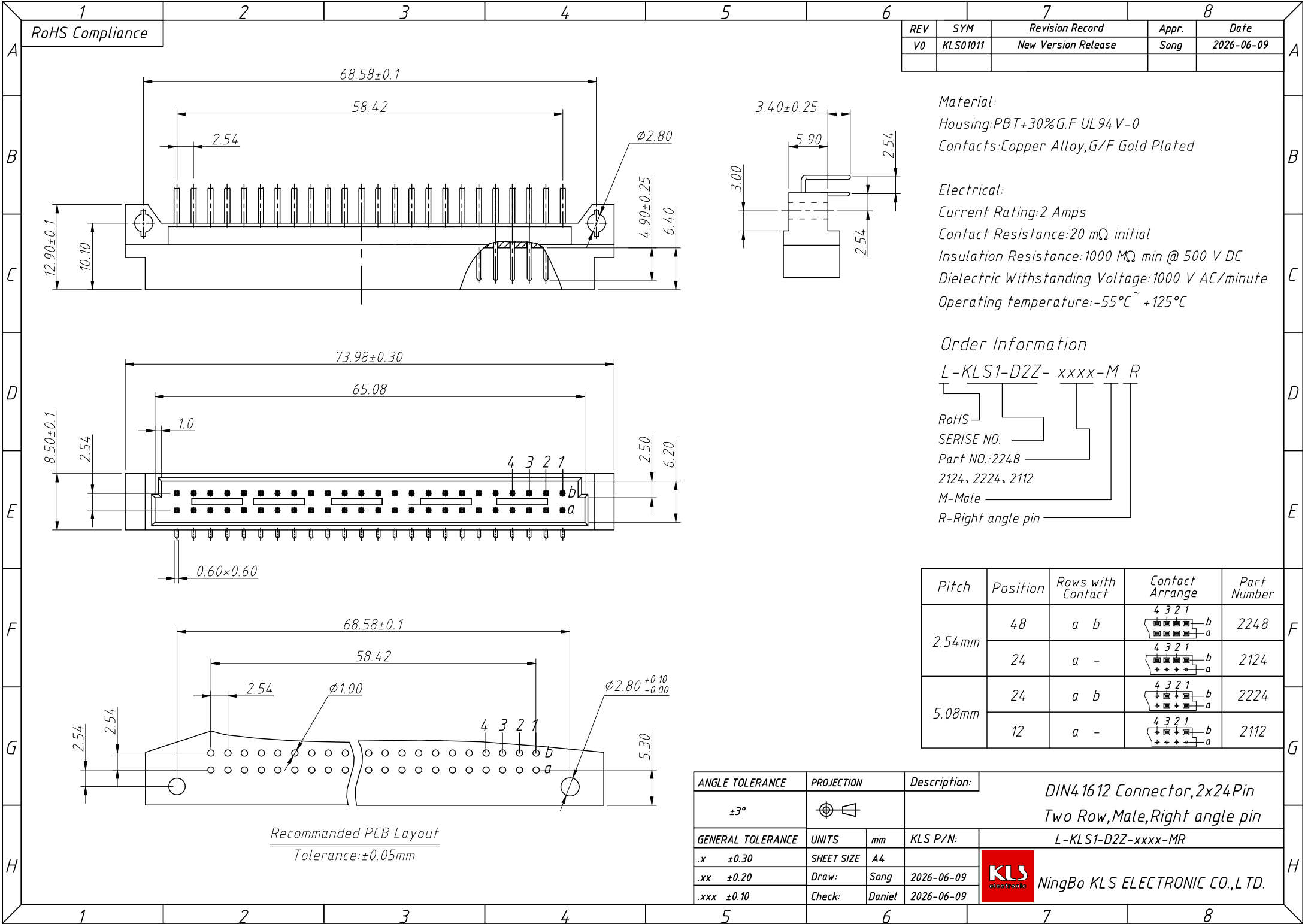




1
RoHS Compliance

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REV	SYM	Revision Record	Appr.	Date
V0	KLS01011	New Version Release	Song	2026-06-09

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℃ ~ +125℃

Order Information

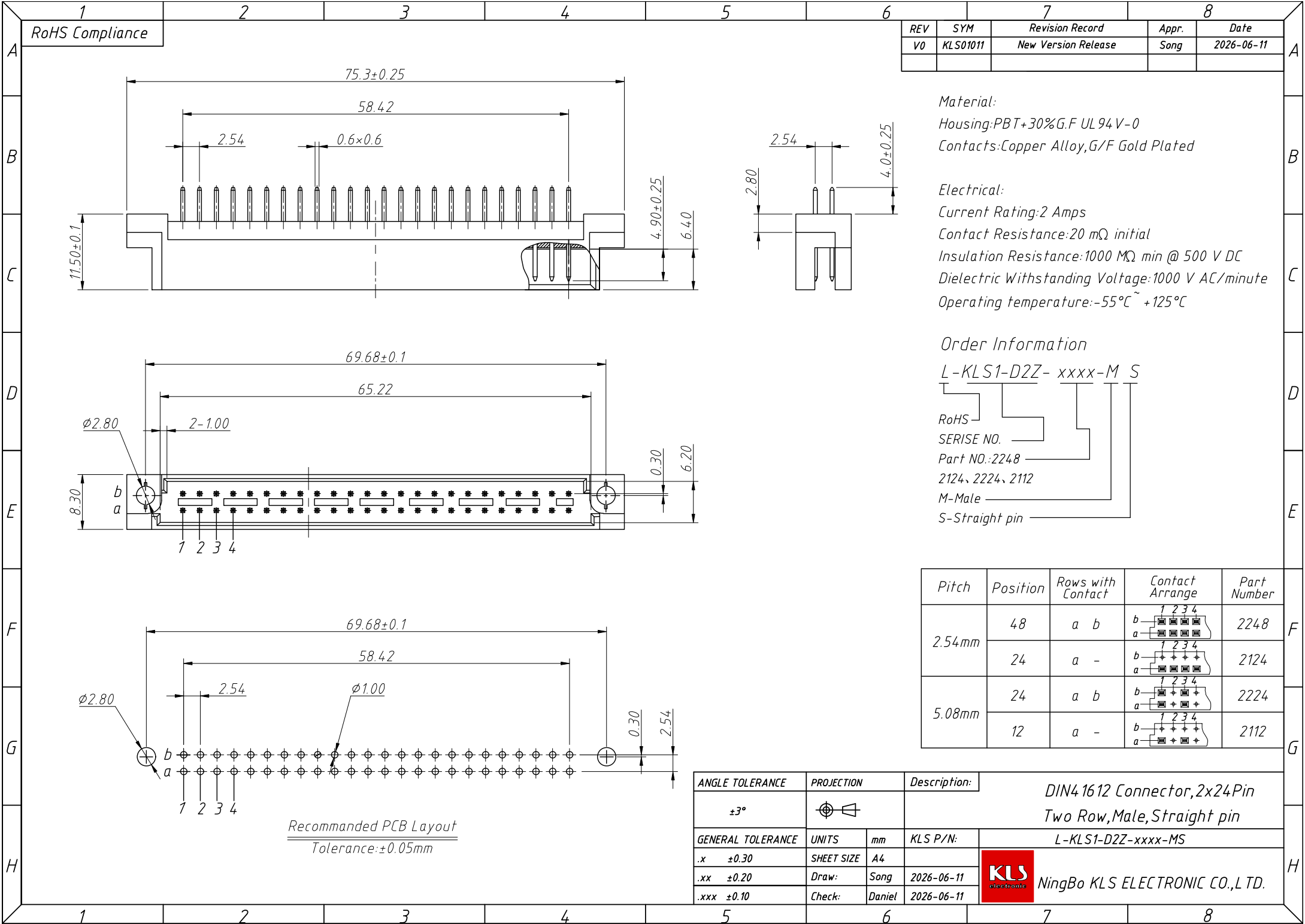
L-KLS1-D2Z- xxxx-M R

RoHS
SERISE NO.
Part NO.:2248
2124、2224、2112
M-Male
R-Right angle pin

Pitch	Position	Rows with Contact	Contact Arrange	Part Number
2.54mm	48	a b		2248
	24	a -		2124
5.08mm	24	a b		2224
	12	a -		2112

ANGLE TOLERANCE	PROJECTION	Description:
±3°		DIN41612 Connector,2x24Pin Two Row,Male,Right angle pin
GENERAL TOLERANCE	UNITS	mm
.x ±0.30	SHEET SIZE	A4
.xx ±0.20	Draw:	Song
.xxx ±0.10	Check:	Daniel

2026-06-09	2026-06-09	KLS NingBo KLS ELECTRONIC CO.,L TD.
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1 RoHS Compliance

REV	SYM	Revision Record	Appr.	Date
V0	KLS01011	New Version Release	Song	2026-06-11

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

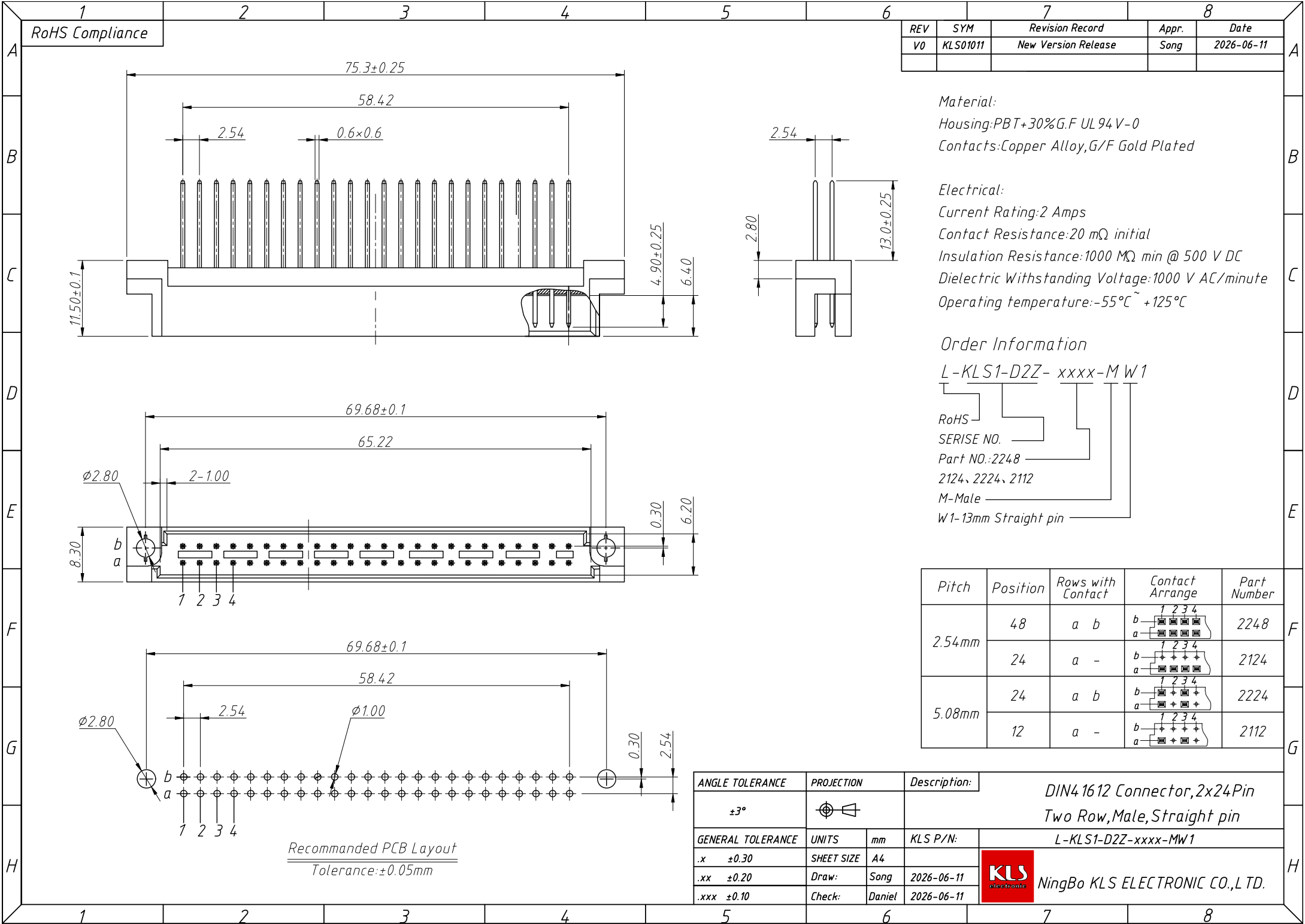
Electrical:
Current Rating:2 Amps
Contact Resistance:20 mΩ initial
Insulation Resistance:1000 MΩ min @ 500 V DC
Dielectric Withstanding Voltage:1000 V AC/minute
Operating temperature:-55℃ ~ +125℃

Order Information
L-KLS1-D2Z- xxxx-M S
RoHS
SERISE NO.
Part NO.:2248
2124、2224、2112
M-Male
S-Straight pin

Pitch	Position	Rows with Contact	Contact Arrange	Part Number
2.54mm	48	a b		2248
	24	a -		2124
5.08mm	24	a b		2224
	12	a -		2112

ANGLE TOLERANCE	PROJECTION	Description:
$\pm 3^\circ$		DIN41612 Connector,2x24Pin Two Row, Male, Straight pin
GENERAL TOLERANCE	UNITS	mm
.x ± 0.30	SHEET SIZE	A4
.xx ± 0.20	Draw:	Song
.xxx ± 0.10	Check:	Daniel

NingBo KLS ELECTRONIC CO.,L TD.



REV	SYM	Revision Record	Appr.	Date
V0	KLS01011	New Version Release	Song	2026-06-11

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℃ ~ +125℃

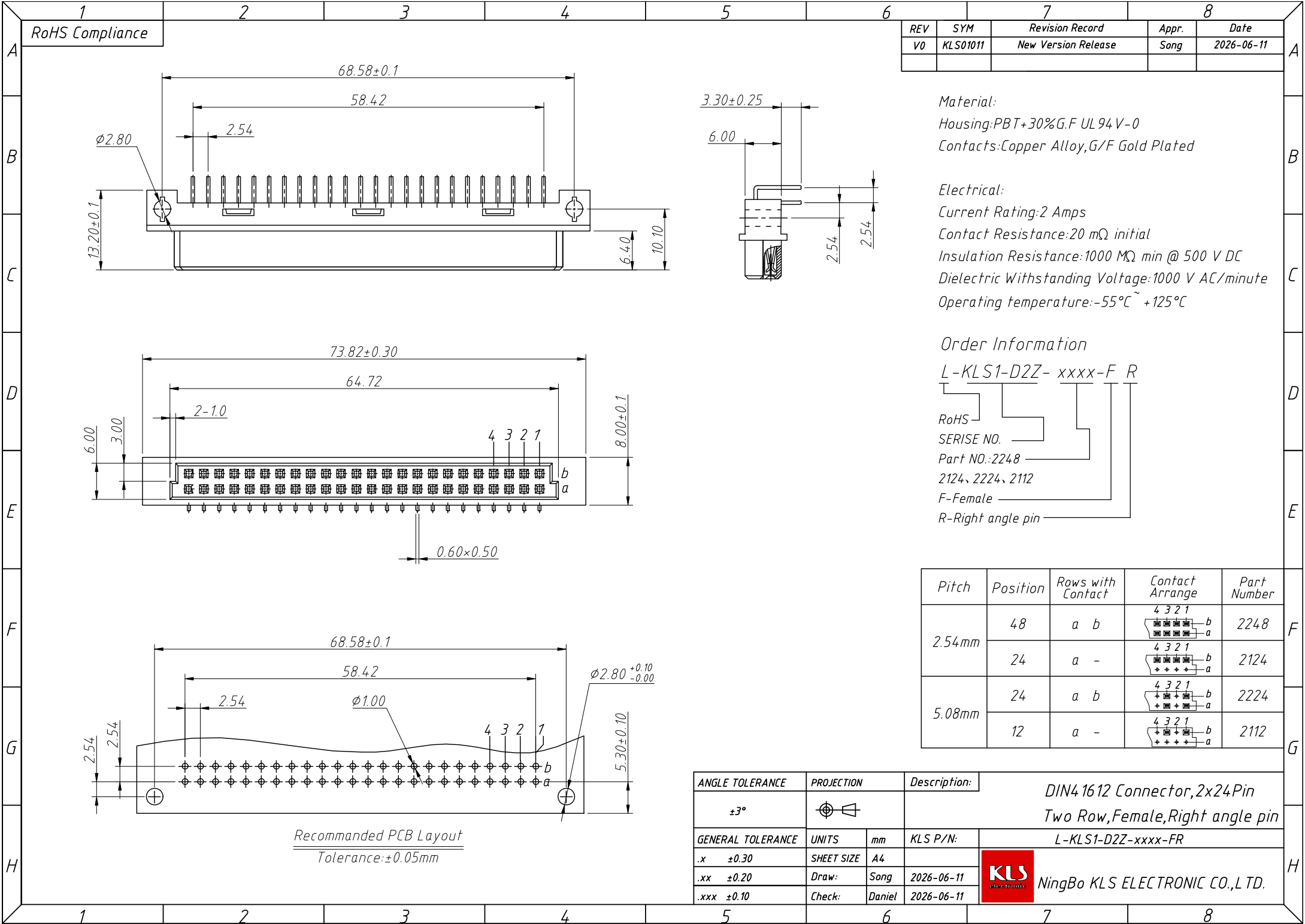
Order Information
L-KLS1-D2Z- xxxx-M W1

RoHS
SERISE NO.
Part NO.:2248
2124、2224、2112
M-Male
W1-13mm Straight pin

Pitch	Position	Rows with Contact	Contact Arrange	Part Number
2.54mm	48	a b		2248
	24	a -		2124
5.08mm	24	a b		2224
	12	a -		2112

ANGLE TOLERANCE	PROJECTION	Description:
±3°		DIN41612 Connector,2x24Pin Two Row,Male,Straight pin
GENERAL TOLERANCE	UNITS	mm
.x ±0.30	SHEET SIZE	A4
.xx ±0.20	Draw:	Song
.xxx ±0.10	Check:	Daniel

NingBo KLS ELECTRONIC CO.,L TD.



Recommended PCB Layout
Tolerance: ± 0.05 mm

REV	SYM	Revision Record	Appr.	Date
V0	KLS01011	New Version Release	Song	2026-06-11

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

Electrical:
Current Rating: 2 Amps
Contact Resistance: 20 m Ω initial
Insulation Resistance: 1000 M Ω min @ 500 V DC
Dielectric Withstanding Voltage: 1000 V AC/minute
Operating temperature: -55 $^{\circ}$ C ~ +125 $^{\circ}$ C

Order Information

L-KLS1-D2Z-xxxx-F R

RoHS
SERISE NO.
Part NO.: 2248
2124, 2224, 2112
F-Female
R-Right angle pin

Pitch	Position	Rows with Contact	Contact Arrange	Part Number
2.54mm	48	a b		2248
	24	a -		2124
5.08mm	24	a b		2224
	12	a -		2112

ANGLE TOLERANCE	PROJECTION	Description:
$\pm 3^{\circ}$		DIN41612 Connector, 2x24Pin Two Row, Female, Right angle pin
GENERAL TOLERANCE	UNITS	mm
.x ± 0.30	SHEET SIZE	A4
.xx ± 0.20	Draw:	Song
.xxx ± 0.10	Check:	Daniel
		KLS P/N: L-KLS1-D2Z-xxxx-FR



NingBo KLS ELECTRONIC CO., L TD.

Order Information

L-KLS1-D2Y-xxxx-F S

RoHS —

SERISE NO. —

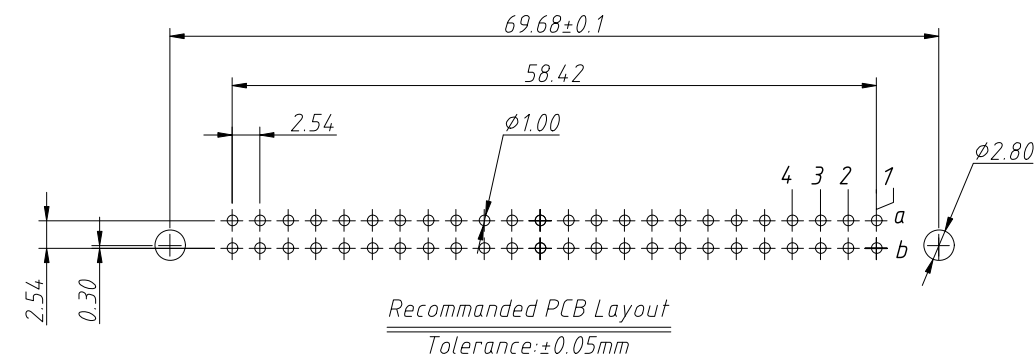
Part NO.:2248 —

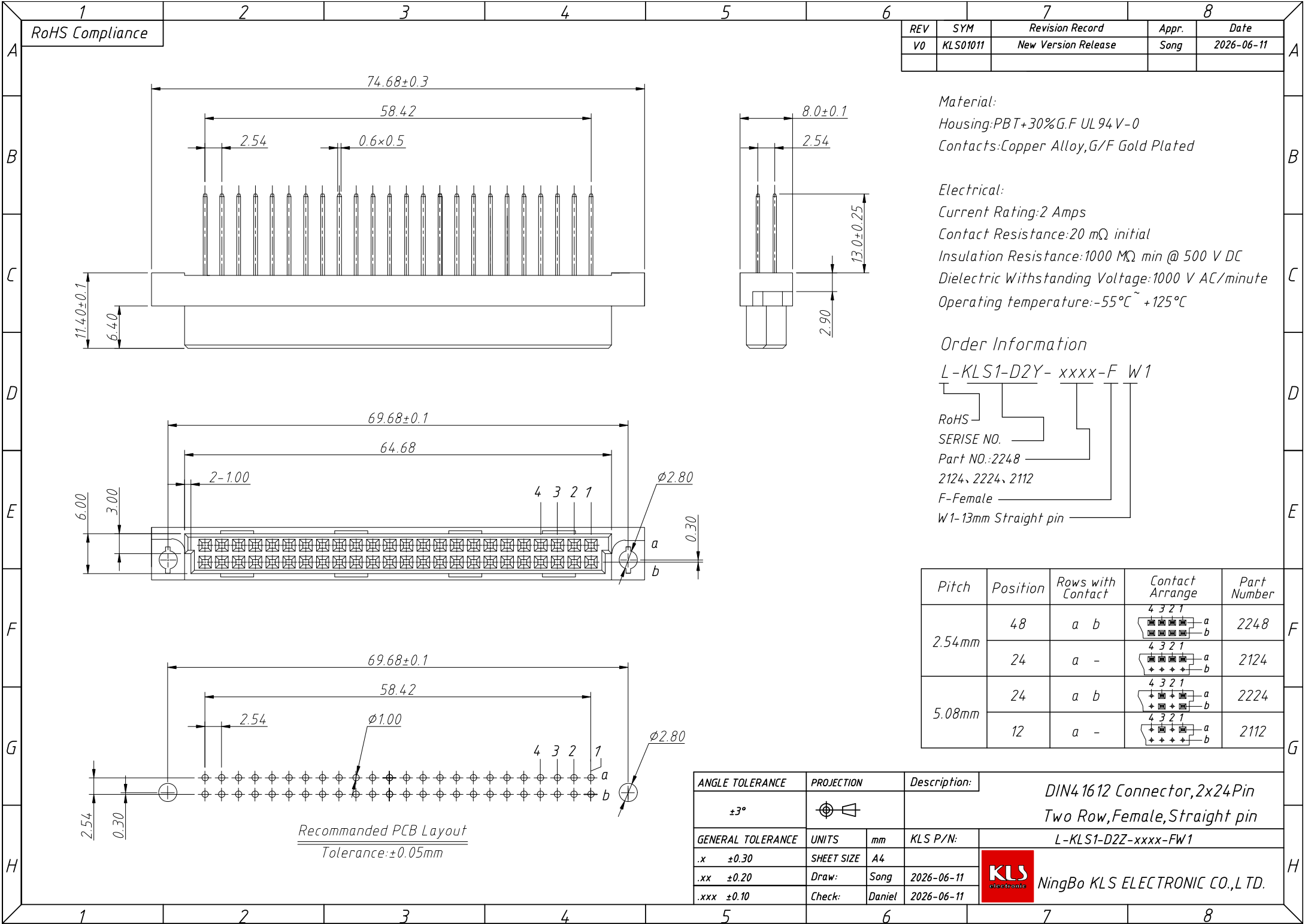
2124, 2224, 2112

F-Female —

S-Straight pin —

Description:		DIN4 1612 Connector, 2x24Pin Two Row, Female, Straight pin	
KLS P/N:		L-KLS1-D2Z-xxxx-FS	
2026-06-11		NingBo KLS ELECTRONIC CO.,L TD.	
2026-06-11			





RoHS Compliance

REV	SYM	Revision Record	Appr.	Date
V0	KLS01011	New Version Release	Song	2026-06-11

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℃ ~ +125℃

Order Information

L-KLS1-D2Y- xxxx-F W1

RoHS
SERISE NO.
Part NO.:2248
2124、2224、2112
F-Female
W1-13mm Straight pin

Pitch	Position	Rows with Contact	Contact Arrange	Part Number
2.54mm	48	a b		2248
	24	a -		2124
5.08mm	24	a b		2224
	12	a -		2112

ANGLE TOLERANCE		PROJECTION		Description:	
±3°				DIN41612 Connector,2x24Pin Two Row,Female,Straight pin	
GENERAL TOLERANCE		UNITS	mm	KLS P/N:	
.x	±0.30	SHEET SIZE	A4	L-KLS1-D2Z-xxxx-FW1	
.xx	±0.20	Draw:	Song	2026-06-11	NingBo KLS ELECTRONIC CO.,L TD.
.xxx	±0.10	Check:	Daniel	2026-06-11	