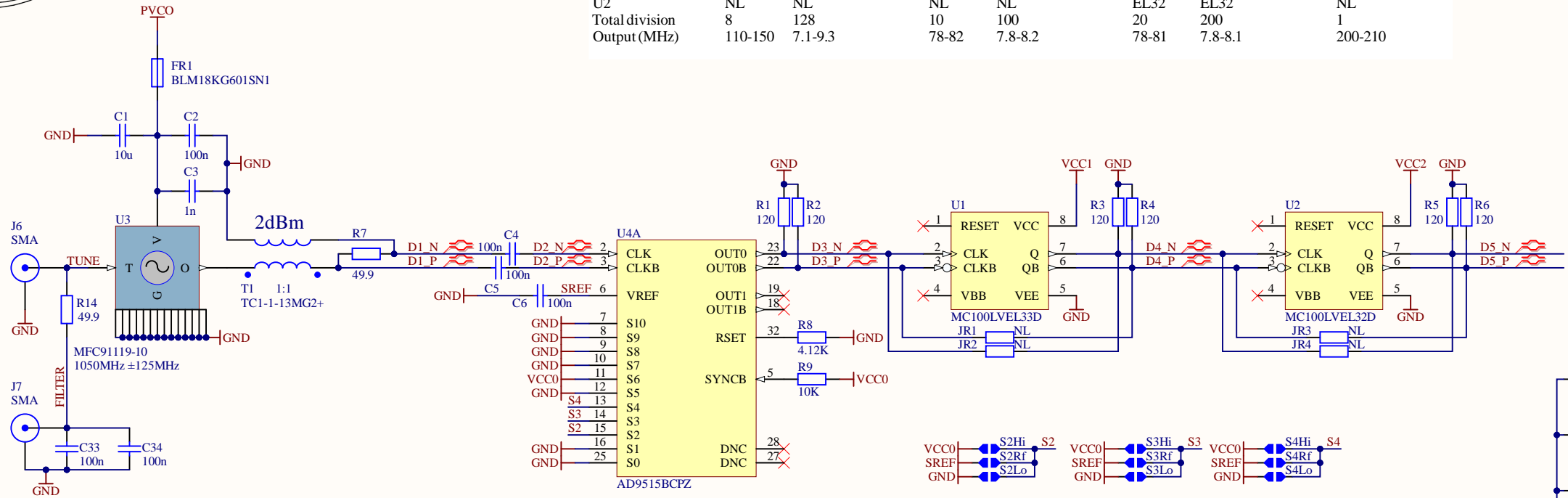


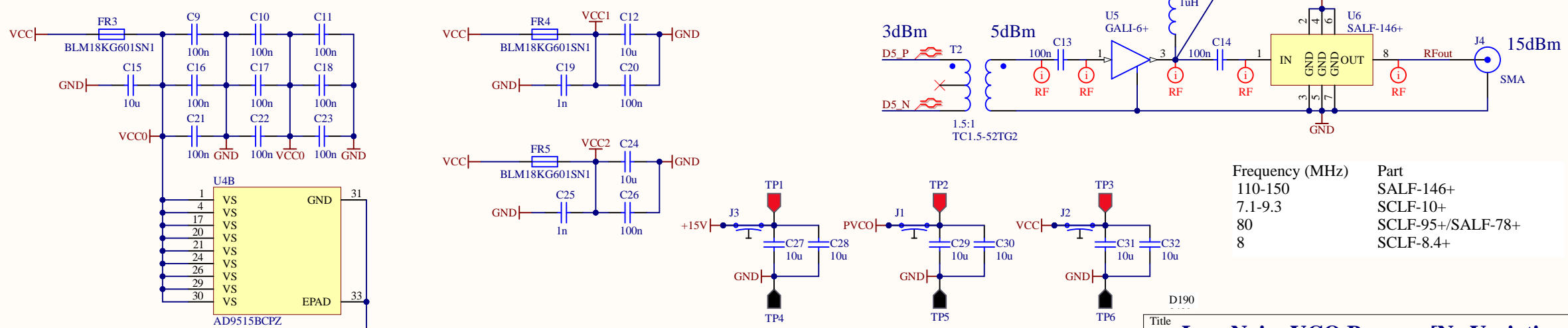


Variant	1050_8	1050_128	800_10	800_100	1600_20	1600_200	203_1
VCO	MFC91119-10		CVCO55CCN-0787-0816		DCRO159161-12		DCSR200-5
S2	Hi	Hi	open	Lo	open	Lo	Lo
S3	open	Hi	Ref	Ref	Ref	Ref	Lo
S4	Lo	open	Lo	open	Lo	open	Lo
1st divider	8	32	10	25	10	25	1
U1	NL	EL33	NL	EL33	NL	EL33	NL
U2	NL	NL	NL	NL	EL32	EL32	NL
Total division	8	128	10	100	20	200	1
Output (MHz)	110-150	7.1-9.3	78-82	7.8-8.2	78-81	7.8-8.1	200-210

- M1 Enclosure
LIGO
D1900377-v6
- M2 Lid
LIGO
D1900428-v1
- M3 Terminator
Digi-Key
ACX1251-ND



Alternative parts:	Supply	fLow (MHz)	fHigh (MHz)	Tune
MFC91119-10	10V	910	1190	0.5-20V
CVCO55CCN-0787-0816	5V	787	816	0-9V
DCRO159161-12	12V	1575	1610	0.5-12V
DCSR200-5	5V	200	210	0.5-11V



Frequency (MHz)	Part
110-150	SALF-146+
7.1-9.3	SCLF-10+
80	SCLF-95+/SALF-78+
8	SCLF-8.4+

Title Low Noise VCO Box [No Variations]

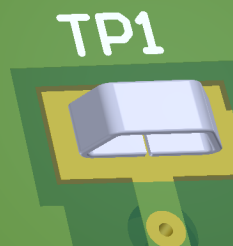
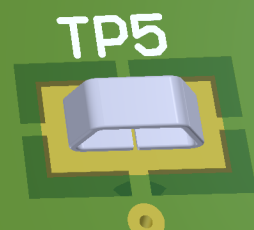
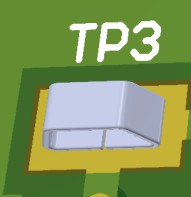
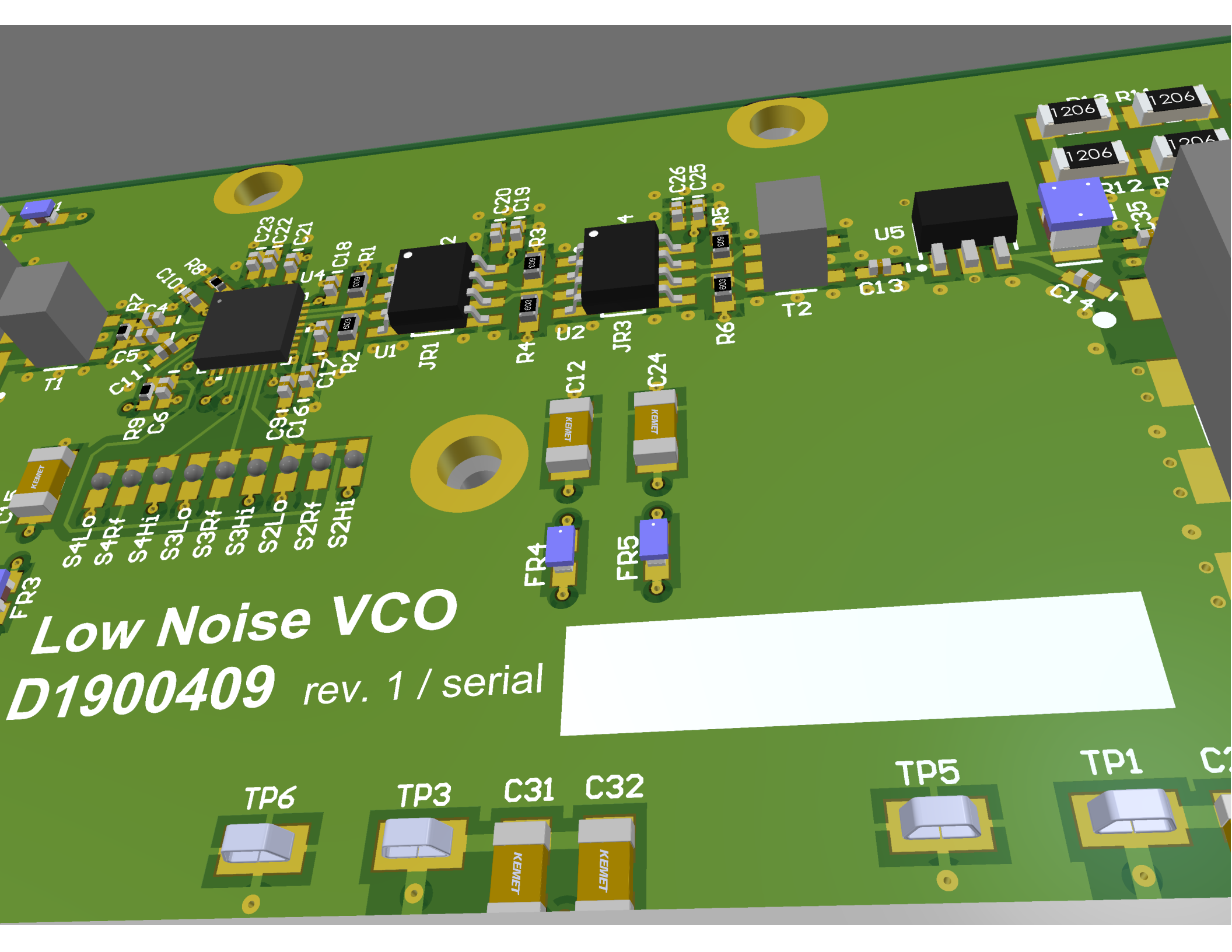
Size B **Number** D1900409 **Revision** 1

Date: 3/06/2024 **Sheet of** 1

File: C:\Users\d... \VCOBox.SchDoc **Drawn By:** Daniel Sigg

Low Noise VCO

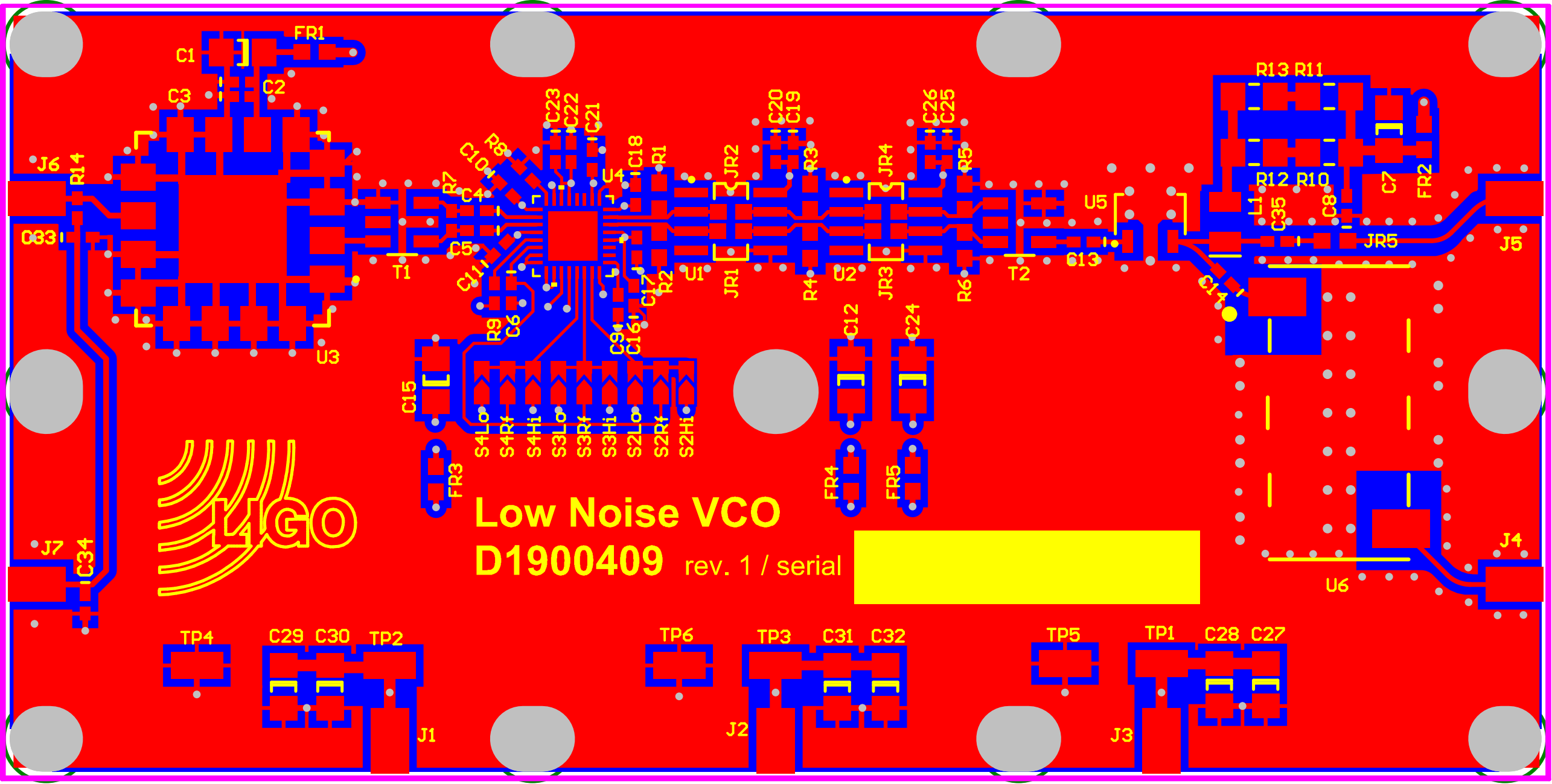
D1900409 rev. 1 / serial





Low Noise VCO

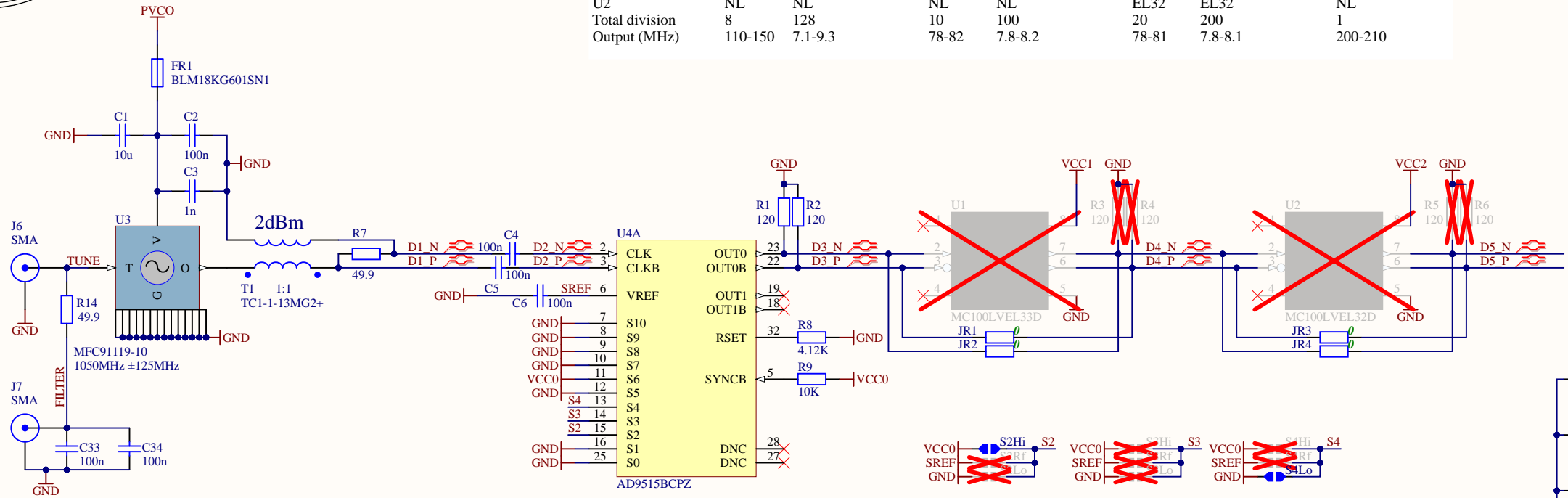
D1900409 rev. 1 / serial



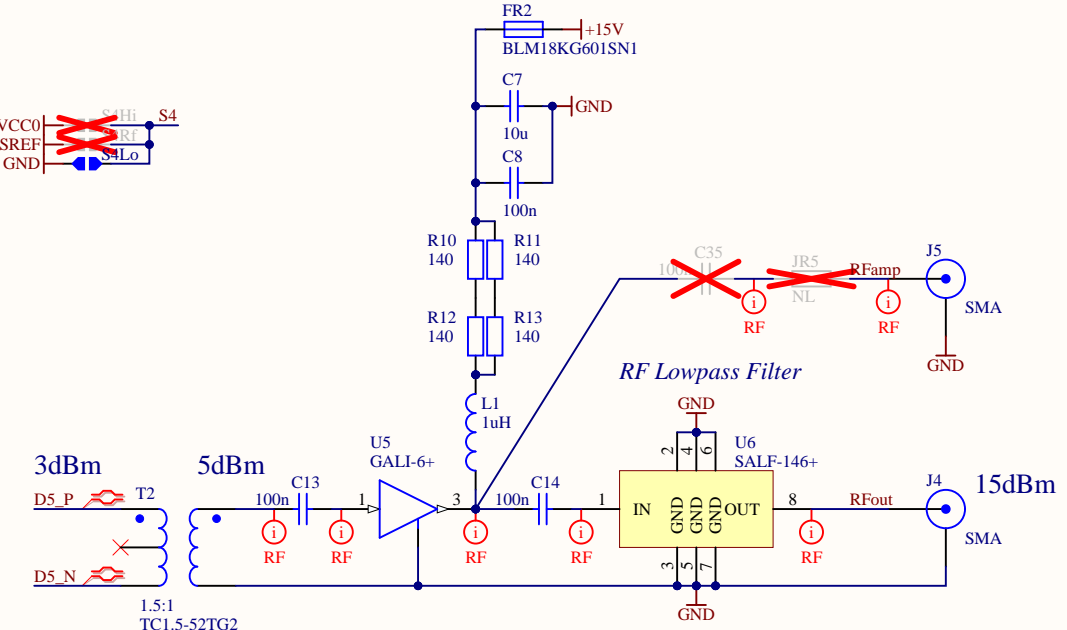
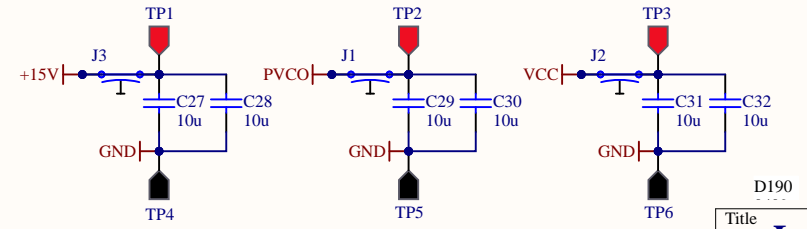
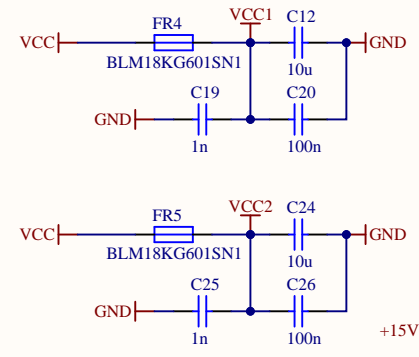
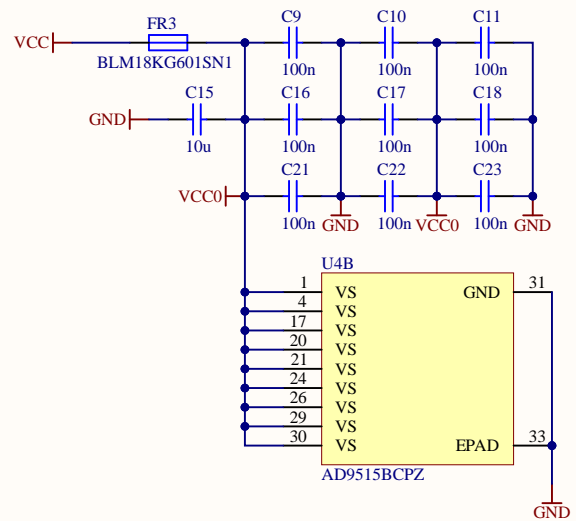


Variant	1050_8	1050_128	800_10	800_100	1600_20	1600_200	203_1
VCO	MFC91119-10		CVCO55CCN-0787-0816		DCRO159161-12		DCSR200-5
S2	Hi	Hi	open	Lo	open	Lo	Lo
S3	open	Hi	Ref	Ref	Ref	Ref	Lo
S4	Lo	open	Lo	open	Lo	open	Lo
1st divider	8	32	10	25	10	25	1
U1	NL	EL33	NL	EL33	NL	EL33	NL
U2	NL	NL	NL	NL	EL32	EL32	NL
Total division	8	128	10	100	20	200	1
Output (MHz)	110-150	7.1-9.3	78-82	7.8-8.2	78-81	7.8-8.1	200-210

- M1 Enclosure
LIGO
D1900377-v6
- M2 Lid
LIGO
D1900428-v1
- M3 Terminator
Digi-Key
ACX1251-ND



Alternative parts:	Supply	fLow (MHz)	fHigh (MHz)	Tune
MFC91119-10	10V	910	1190	0.5-20V
CVCO55CCN-0787-0816	5V	787	816	0-9V
DCRO159161-12	12V	1575	1610	0.5-12V
DCSR200-5	5V	200	210	0.5-11V



Frequency (MHz)	Part
110-150	SALF-146+
7.1-9.3	SCLF-10+
80	SCLF-95+ / SALF-78+
8	SCLF-8.4+

Title Low Noise VCO Box **1050_8**

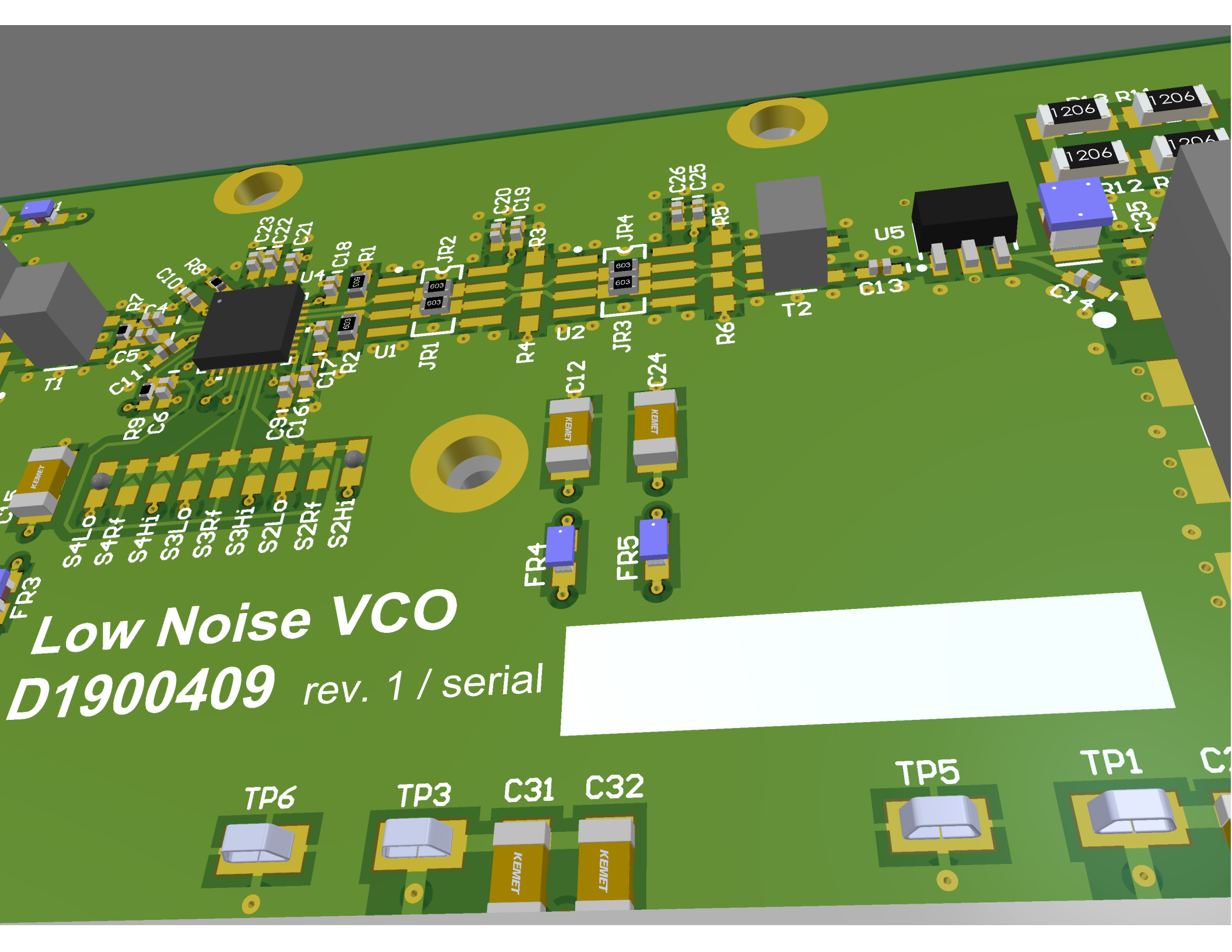
Size B **Number** D1900409 **Revision** 1

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File: C:\Users\...\VCOBox.SchDoc **Drawn By:** Daniel Sigg

Low Noise VCO

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TP6

TP3

C31

C32

TP5

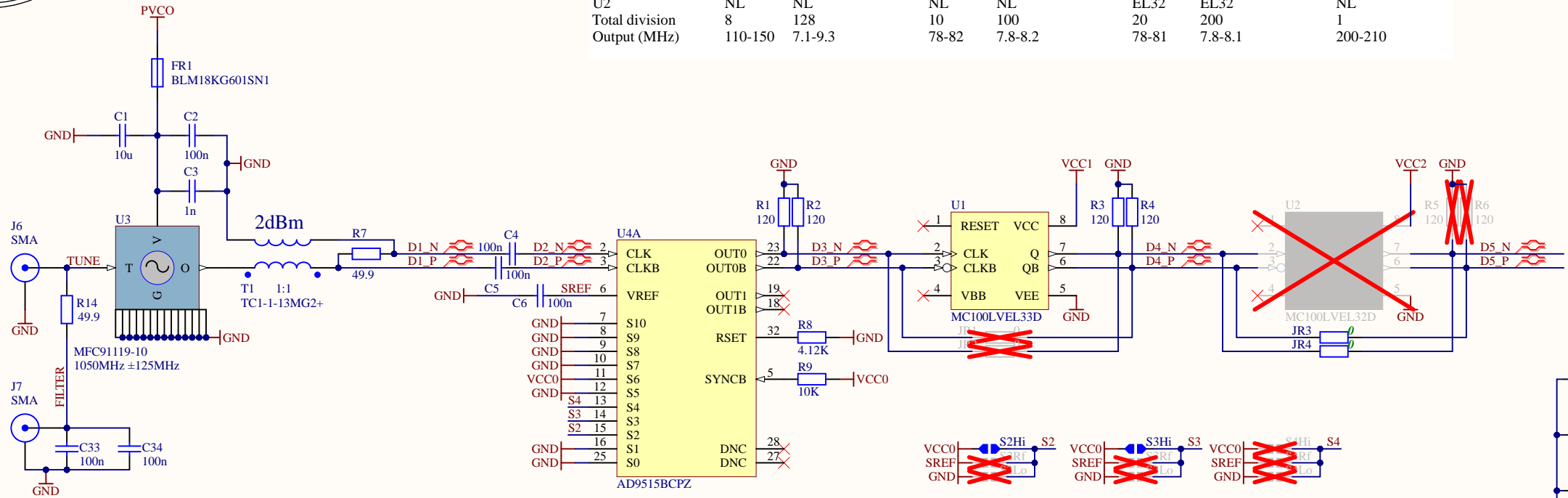
TP1

C3

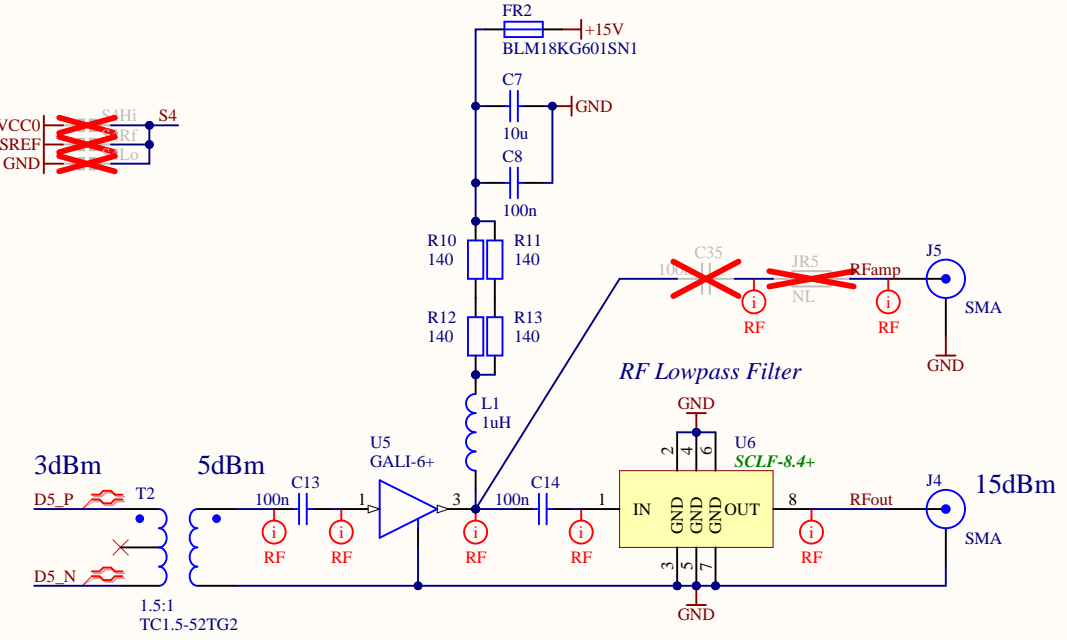
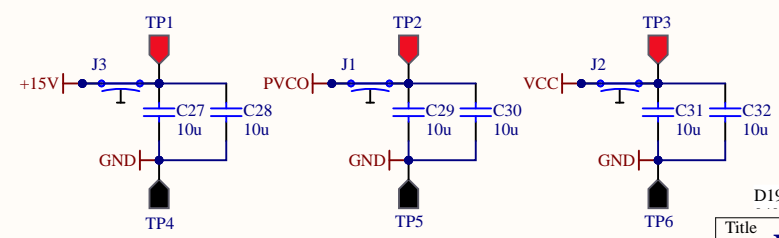
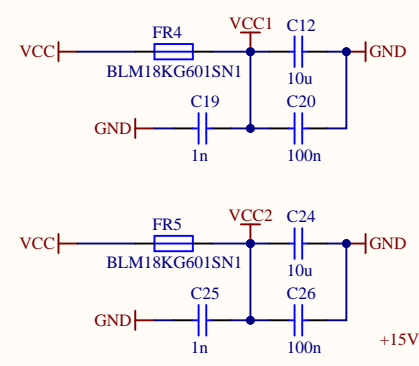
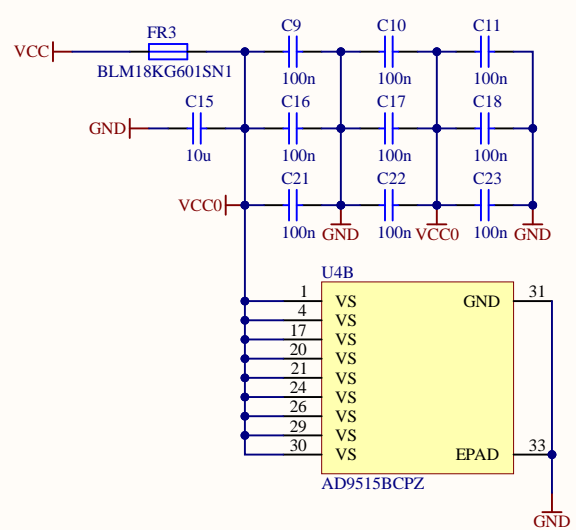


Variant	1050_8	1050_128	800_10	800_100	1600_20	1600_200	203_1
VCO	MFC91119-10		CVCO55CCN-0787-0816		DCRO159161-12		DCSR200-5
S2	Hi	Hi	open	Lo	open	Lo	Lo
S3	open	Hi	Ref	Ref	Ref	Ref	Lo
S4	Lo	open	Lo	open	Lo	open	Lo
1st divider	8	32	10	25	10	25	1
U1	NL	EL33	NL	EL33	NL	EL33	NL
U2	NL	NL	NL	NL	EL32	EL32	NL
Total division	8	128	10	100	20	200	1
Output (MHz)	110-150	7.1-9.3	78-82	7.8-8.2	78-81	7.8-8.1	200-210

- M1 Enclosure
LIGO
D1900377-v6
- M2 Lid
LIGO
D1900428-v1
- M3 Terminator
Digi-Key
ACX1251-ND



Alternative parts:	Supply	fLow (MHz)	fHigh (MHz)	Tune
MFC91119-10	10V	910	1190	0.5-20V
CVCO55CCN-0787-0816	5V	787	816	0-9V
DCRO159161-12	12V	1575	1610	0.5-12V
DCSR200-5	5V	200	210	0.5-11V



Frequency (MHz)	Part
110-150	SALF-146+
7.1-9.3	SCLF-10+
80	SCLF-95+ / SALF-78+
8	SCLF-8.4+

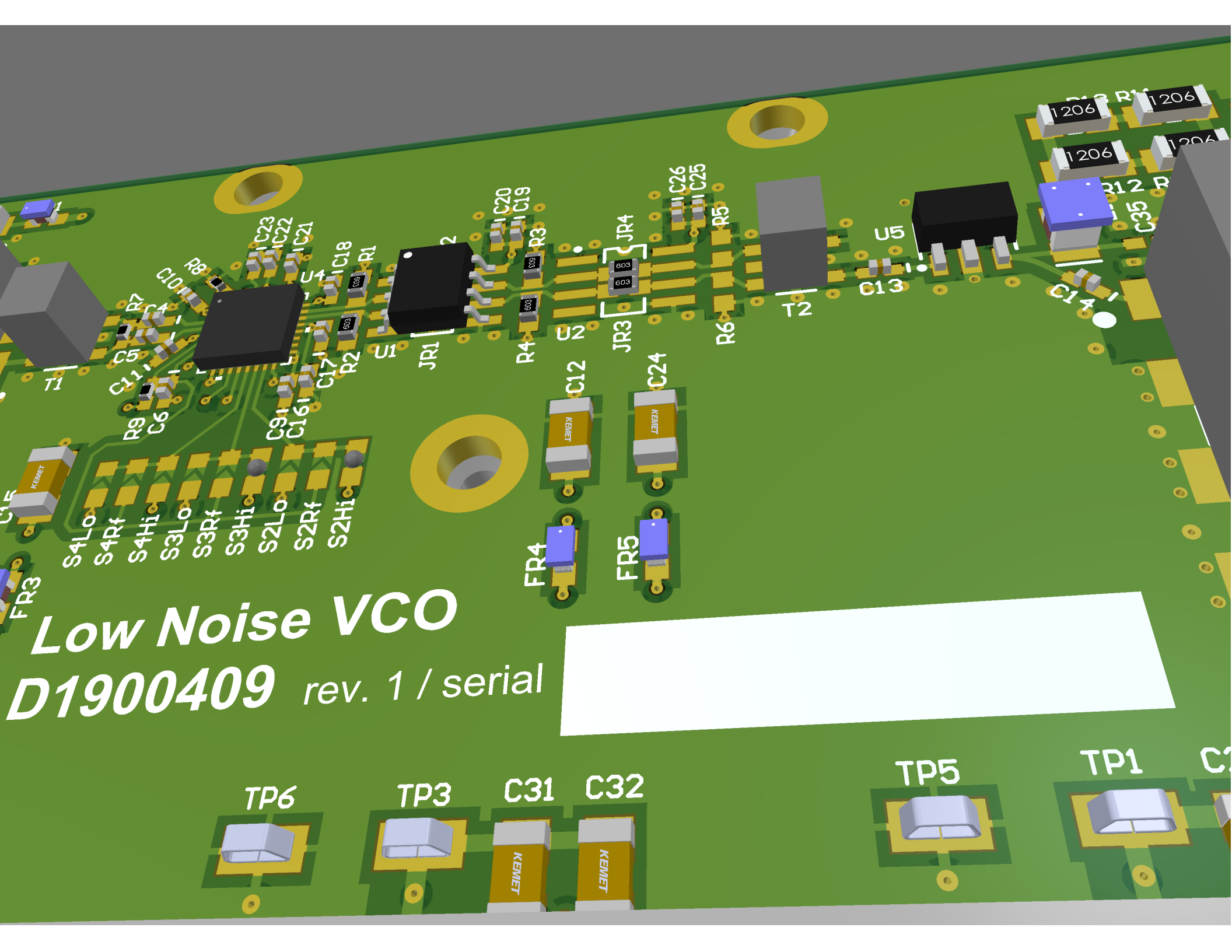
Title: Low Noise VCO Box 1050_128

Size: B **Number: D1900409** **Revision: 1**

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Low Noise VCO

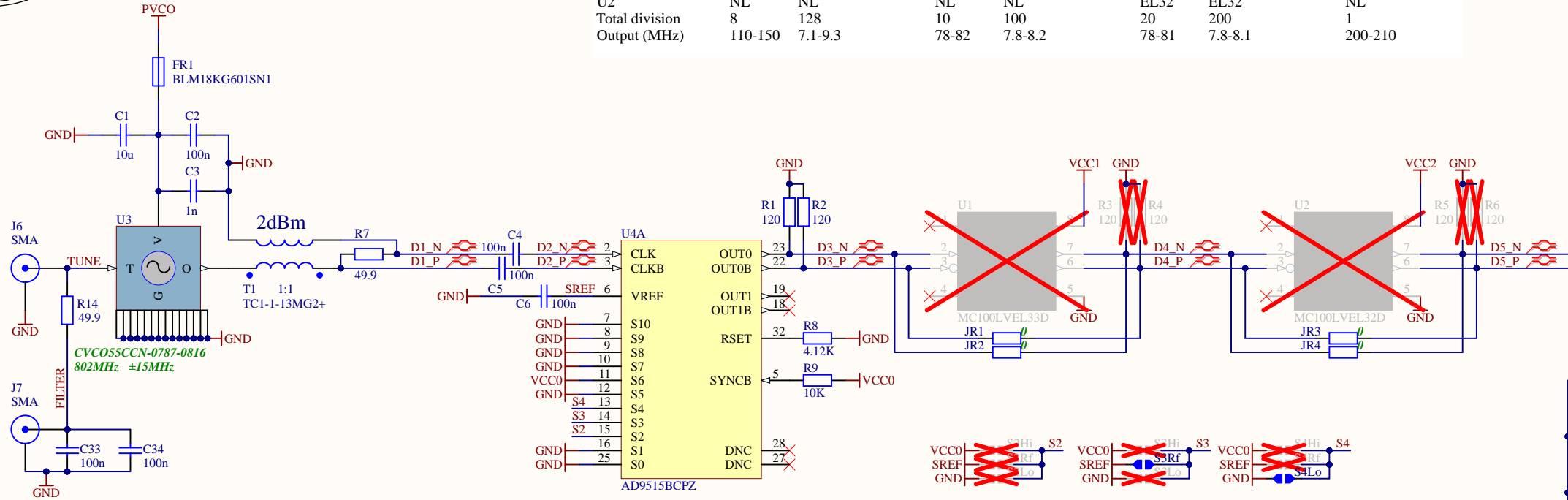
D1900409 rev. 1 / serial



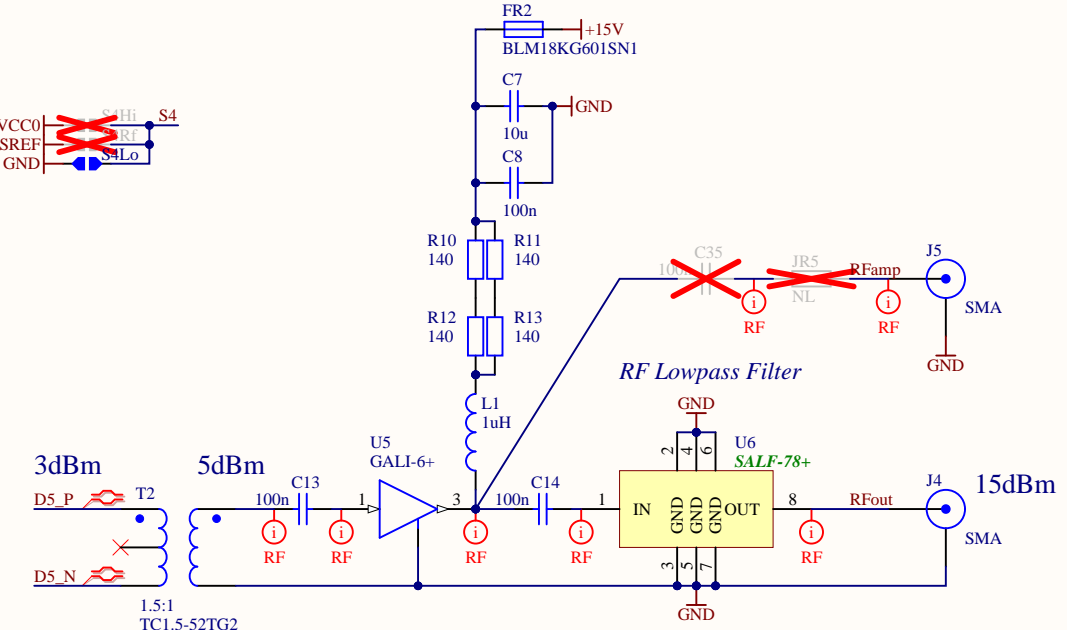
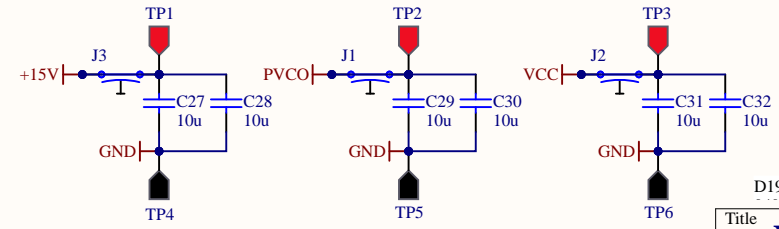
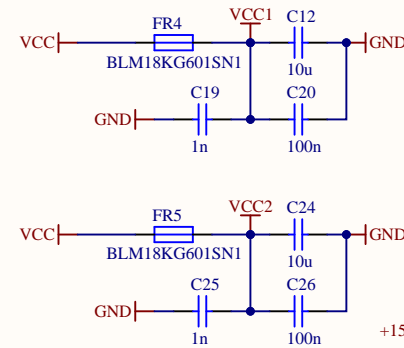
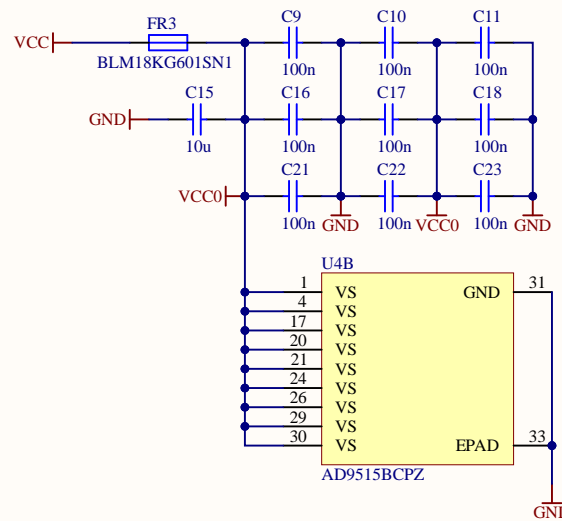


Variant	1050_8	1050_128	800_10	800_100	1600_20	1600_200	203_1
VCO	MFC91119-10	MFC91119-10	CVCO55CCN-0787-0816	CVCO55CCN-0787-0816	DCRO159161-12	DCRO159161-12	DCSR200-5
S2	Hi	Hi	open	Lo	open	Lo	Lo
S3	open	Hi	Ref	Ref	Ref	Ref	Lo
S4	Lo	open	Lo	open	Lo	open	Lo
1st divider	8	32	10	25	10	25	1
U1	NL	EL33	NL	EL33	NL	EL33	NL
U2	NL	NL	NL	NL	EL32	EL32	NL
Total division	8	128	10	100	20	200	1
Output (MHz)	110-150	7.1-9.3	78-82	7.8-8.2	78-81	7.8-8.1	200-210

- M1 Enclosure
LIGO
D1900377-v6
- M2 Lid
LIGO
D1900428-v1
- M3 Terminator
Digi-Key
ACX1251-ND



Alternative parts:	Supply	fLow (MHz)	fHigh (MHz)	Tune
MFC91119-10	10V	910	1190	0.5-20V
CVCO55CCN-0787-0816	5V	787	816	0-9V
DCRO159161-12	12V	1575	1610	0.5-12V
DCSR200-5	5V	200	210	0.5-11V



Frequency (MHz)	Part
110-150	SALF-146+
7.1-9.3	SCLF-10+
80	SCLF-95+ / SALF-78+
8	SCLF-8.4+

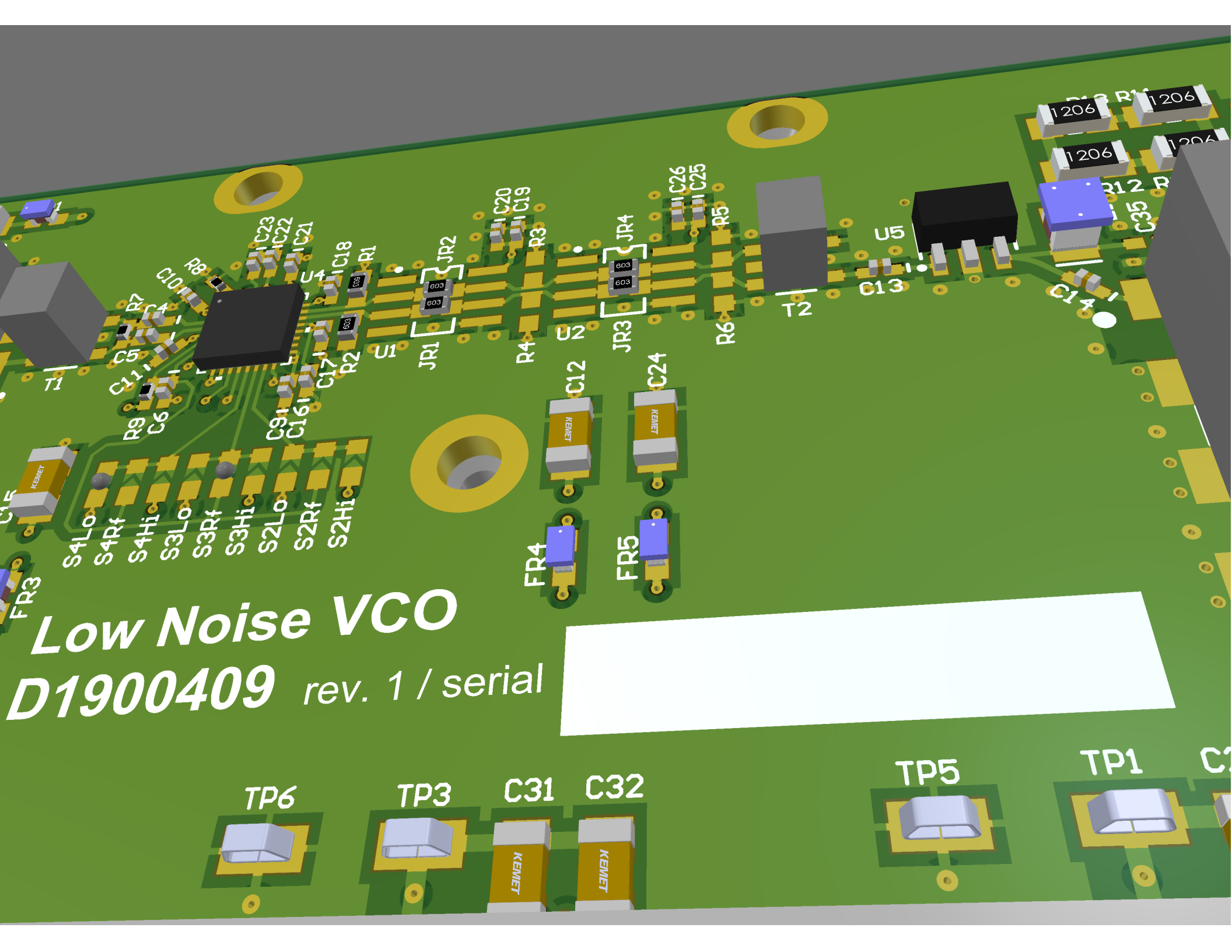
Low Noise VCO Box 800_10

Size B Number **D1900409** Revision **1**

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Low Noise VCO

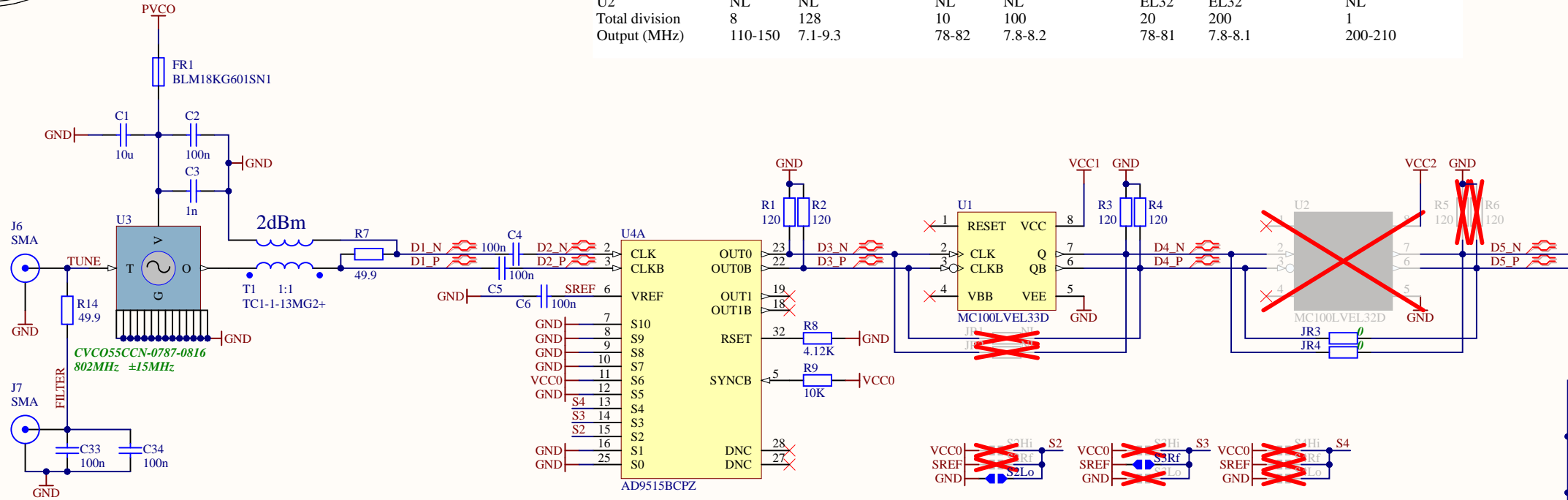
D1900409 rev. 1 / serial



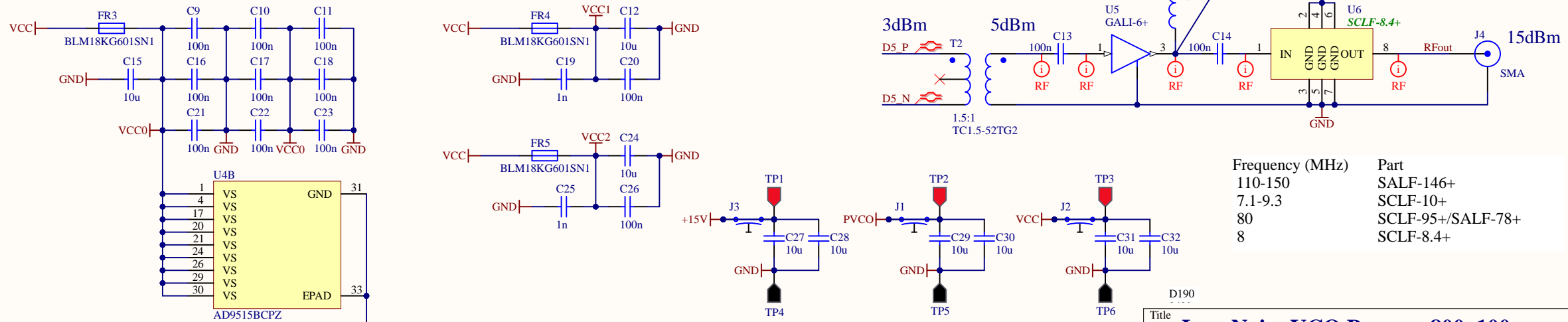


Variant	1050_8	1050_128	800_10	800_100	1600_20	1600_200	203_1
VCO	MFC91119-10	MFC91119-10	CVCO55CCN-0787-0816	CVCO55CCN-0787-0816	DCRO159161-12	DCRO159161-12	DCSR200-5
S2	Hi	Hi	open	Lo	open	Lo	Lo
S3	open	Hi	Ref	Ref	Ref	Ref	Lo
S4	Lo	open	Lo	open	Lo	open	Lo
1st divider	8	32	10	25	10	25	1
U1	NL	EL33	NL	EL33	NL	EL33	NL
U2	NL	NL	NL	NL	EL32	EL32	NL
Total division	8	128	10	100	20	200	1
Output (MHz)	110-150	7.1-9.3	78-82	7.8-8.2	78-81	7.8-8.1	200-210

- M1 Enclosure
LIGO
D1900377-v6
- M2 Lid
LIGO
D1900428-v1
- M3 Terminator
Digi-Key
ACX1251-ND



Alternative parts:	Supply	fLow (MHz)	fHigh (MHz)	Tune
MFC91119-10	10V	910	1190	0.5-20V
CVCO55CCN-0787-0816	5V	787	816	0-9V
DCRO159161-12	12V	1575	1610	0.5-12V
DCSR200-5	5V	200	210	0.5-11V

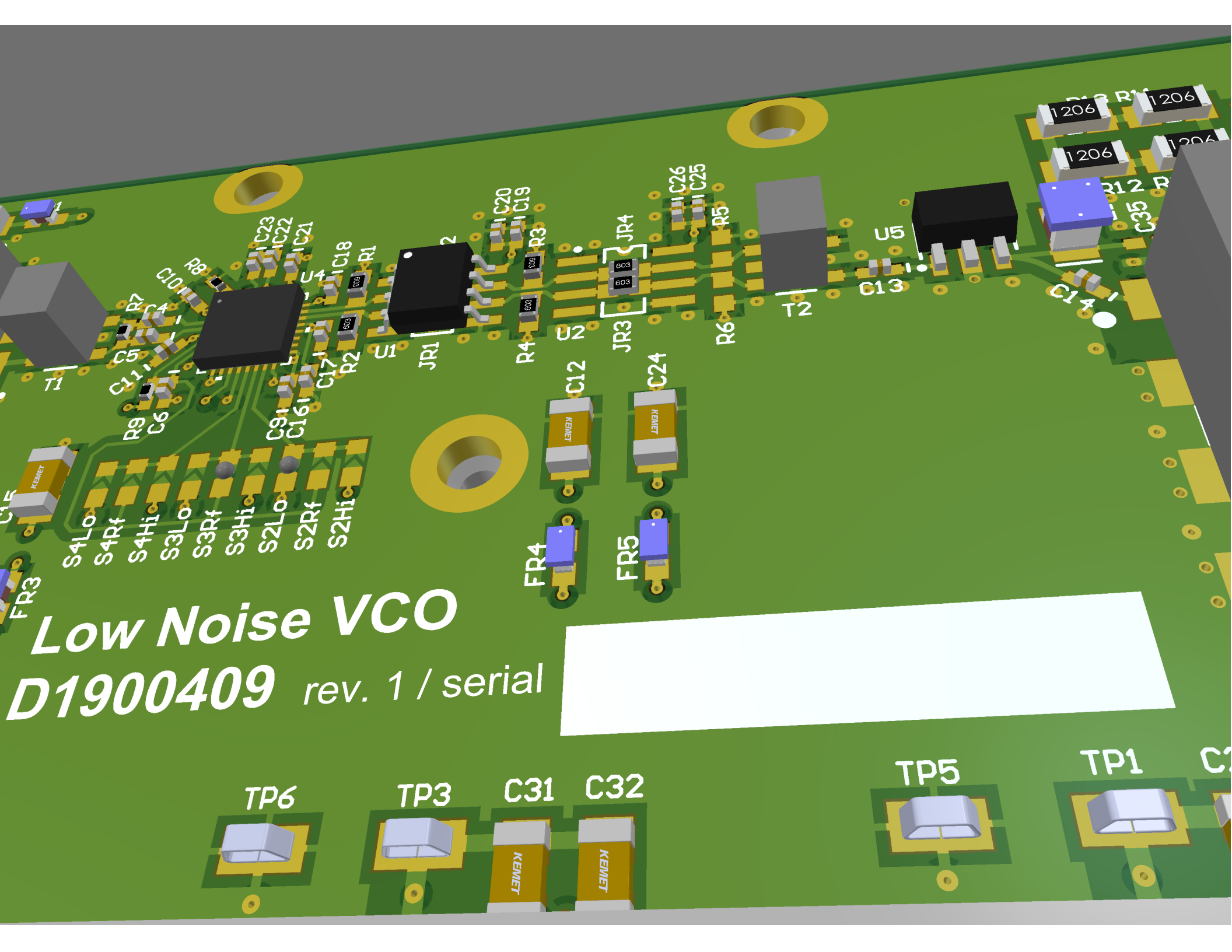


Frequency (MHz)	Part
110-150	SALF-146+
7.1-9.3	SCLF-10+
80	SCLF-95+ / SALF-78+
8	SCLF-8.4+

Title		Low Noise VCO Box 800_100	
Size	Number	Revision	
B	D1900409	1	
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File:	C:\Users\...\VCOBox.SchDoc	Drawn By:	Daniel Sigg

Low Noise VCO

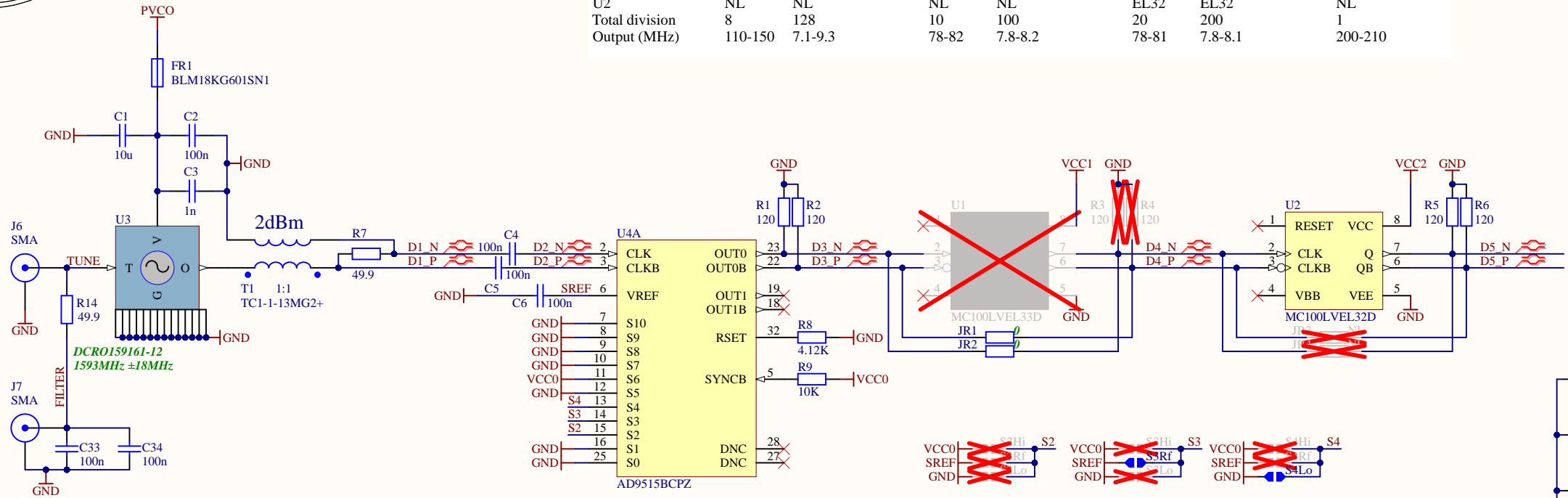
D1900409 rev. 1 / serial



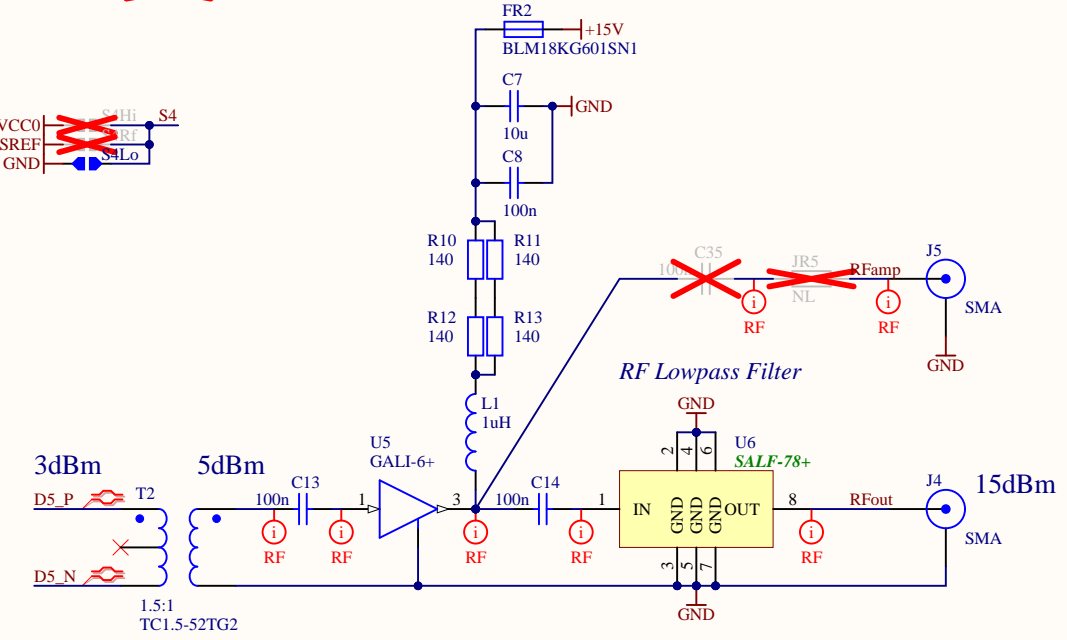
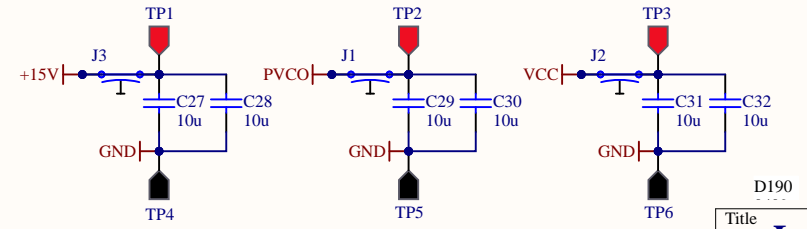
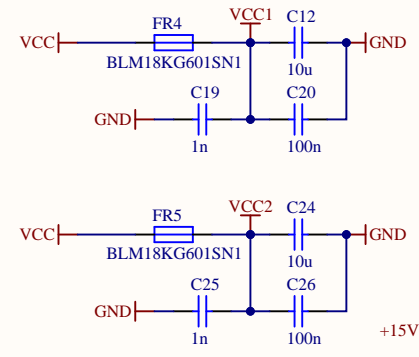
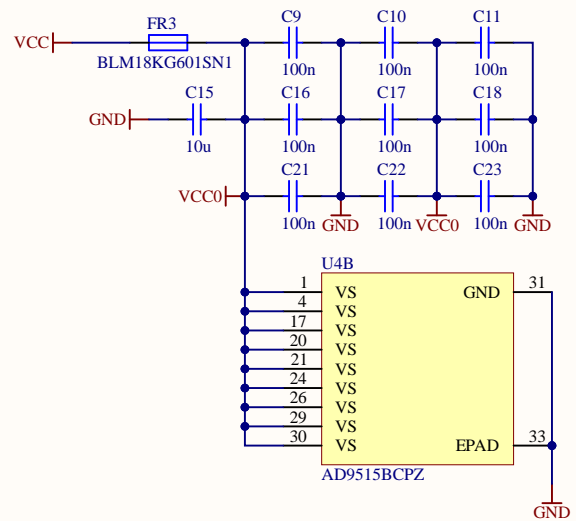


Variant	1050_8	1050_128	800_10	800_100	1600_20	1600_200	203_1
VCO	MFC91119-10	MFC91119-10	CVCO55CCN-0787-0816	CVCO55CCN-0787-0816	DCRO159161-12	DCRO159161-12	DCSR200-5
S2	Hi	Hi	open	Lo	open	Lo	Lo
S3	open	Hi	Ref	Ref	Ref	Ref	Lo
S4	Lo	open	Lo	open	Lo	open	Lo
1st divider	8	32	10	25	10	25	1
U1	NL	EL33	NL	EL33	NL	EL33	NL
U2	NL	NL	NL	NL	EL32	EL32	NL
Total division	8	128	10	100	20	200	1
Output (MHz)	110-150	7.1-9.3	78-82	7.8-8.2	78-81	7.8-8.1	200-210

- M1 Enclosure
LIGO
D1900377-v6
- M2 Lid
LIGO
D1900428-v2
- M3 Terminator
Digi-Key
ACX1251-ND



Alternative parts:	Supply	fLow (MHz)	fHigh (MHz)	Tune
MFC91119-10	10V	910	1190	0.5-20V
CVCO55CCN-0787-0816	5V	787	816	0-9V
DCRO159161-12	12V	1575	1610	0.5-12V
DCSR200-5	5V	200	210	0.5-11V



Frequency (MHz)	Part
110-150	SALF-146+
7.1-9.3	SCLF-10+
80	SCLF-95+ / SALF-78+
8	SCLF-8.4+

Title Low Noise VCO Box **1600_20**

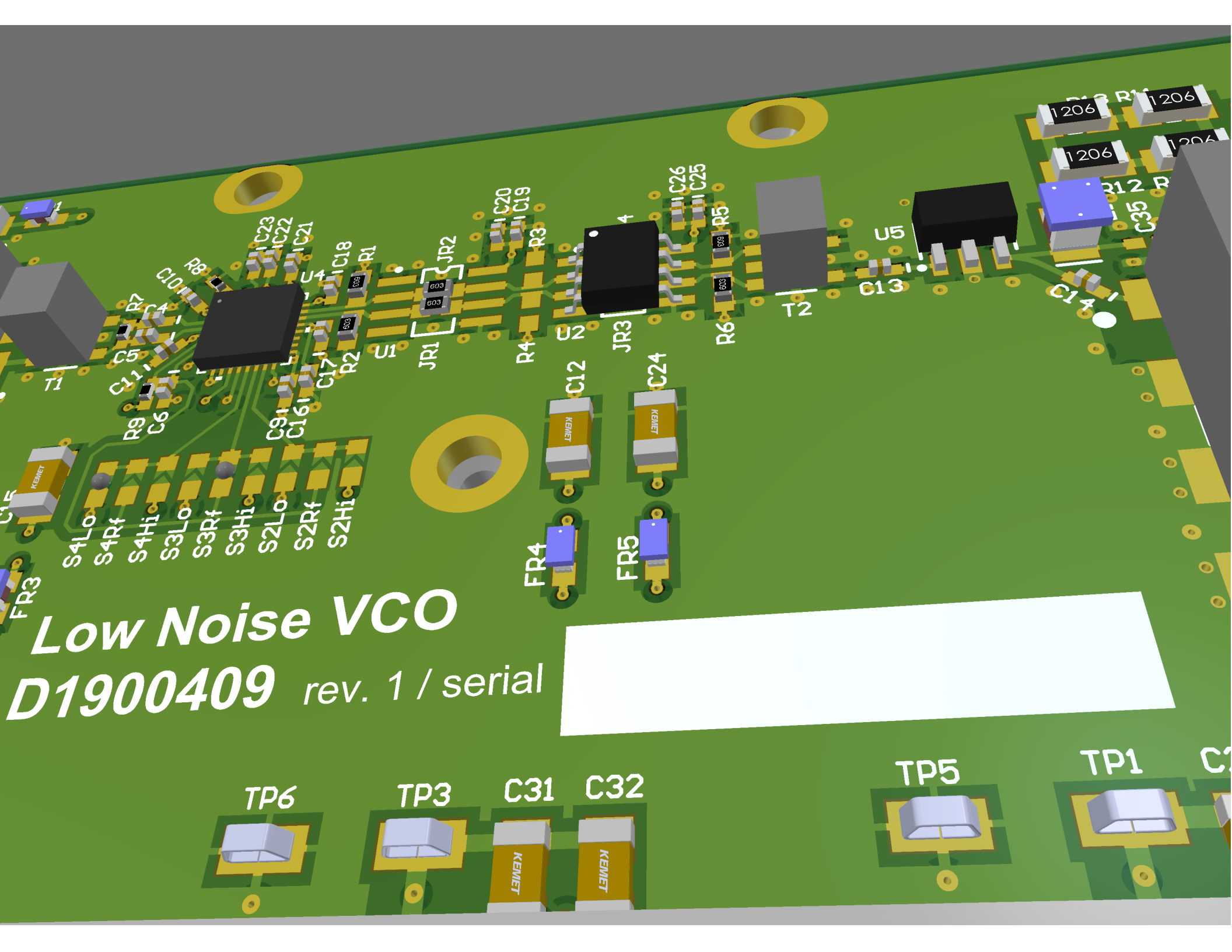
Size B **Number** D1900409 **Revision** 1

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Low Noise VCO

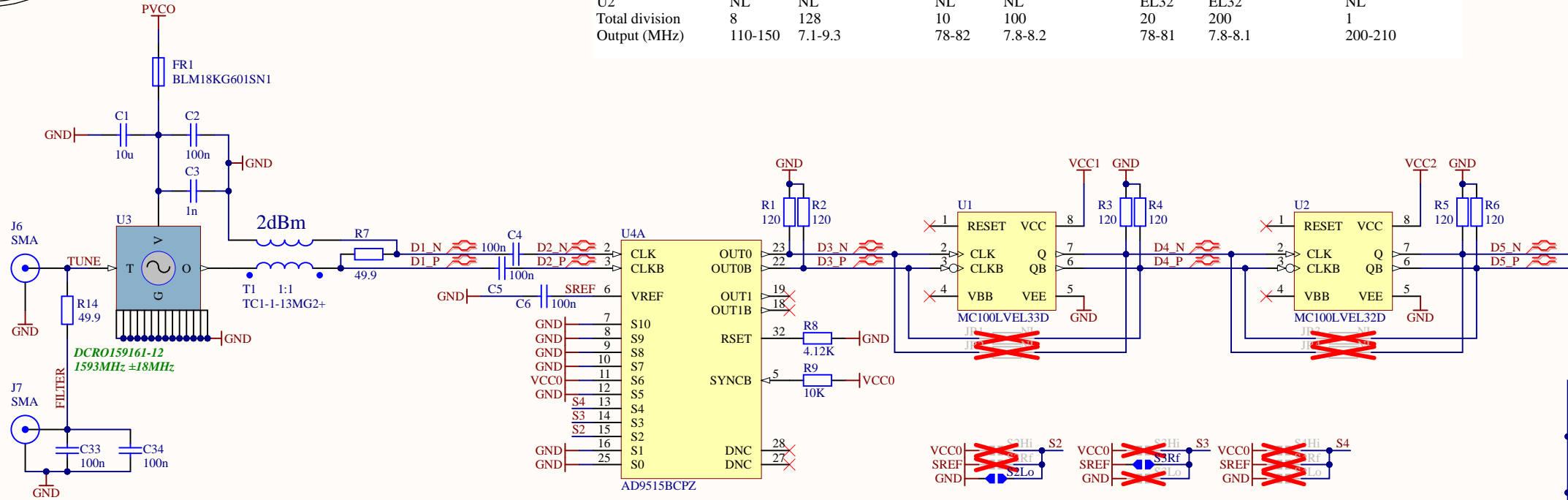
D1900409 rev. 1 / serial



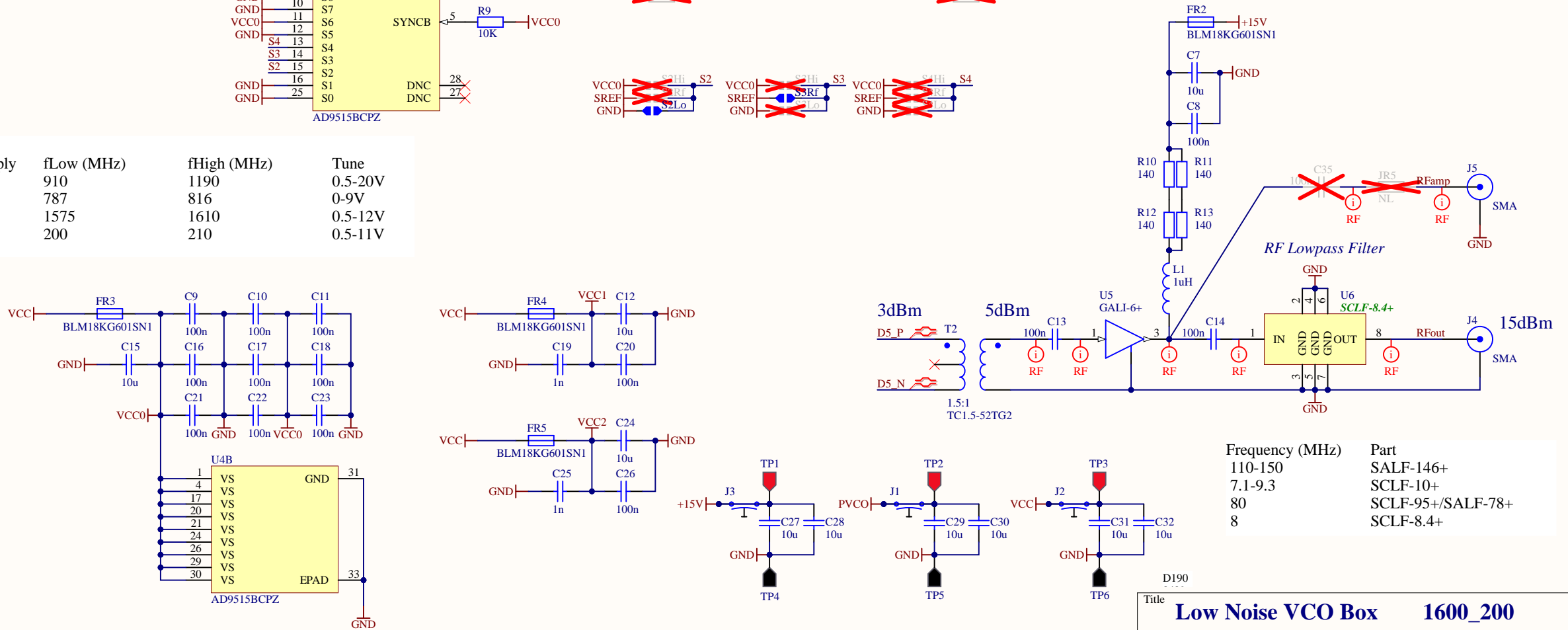


Variant	1050_8	1050_128	800_10	800_100	1600_20	1600_200	203_1
VCO	MFC91119-10	MFC91119-10	CVCO55CCN-0787-0816	CVCO55CCN-0787-0816	DCRO159161-12	DCRO159161-12	DCSR200-5
S2	Hi	Hi	open	Lo	open	Lo	Lo
S3	open	Hi	Ref	Ref	Ref	Ref	Lo
S4	Lo	open	Lo	open	Lo	open	Lo
1st divider	8	32	10	25	10	25	1
U1	NL	EL33	NL	EL33	NL	EL33	NL
U2	NL	NL	NL	NL	EL32	EL32	NL
Total division	8	128	10	100	20	200	1
Output (MHz)	110-150	7.1-9.3	78-82	7.8-8.2	78-81	7.8-8.1	200-210

- M1 Enclosure
LIGO
D1900377-v6
- M2 Lid
LIGO
D1900428-v2
- M3 Terminator
Digi-Key
ACX1251-ND



Alternative parts:	Supply	fLow (MHz)	fHigh (MHz)	Tune
MFC91119-10	10V	910	1190	0.5-20V
CVCO55CCN-0787-0816	5V	787	816	0-9V
DCRO159161-12	12V	1575	1610	0.5-12V
DCSR200-5	5V	200	210	0.5-11V



Frequency (MHz)	Part
110-150	SALF-146+
7.1-9.3	SCLF-10+
80	SCLF-95+ / SALF-78+
8	SCLF-8.4+

Title Low Noise VCO Box **1600_200**

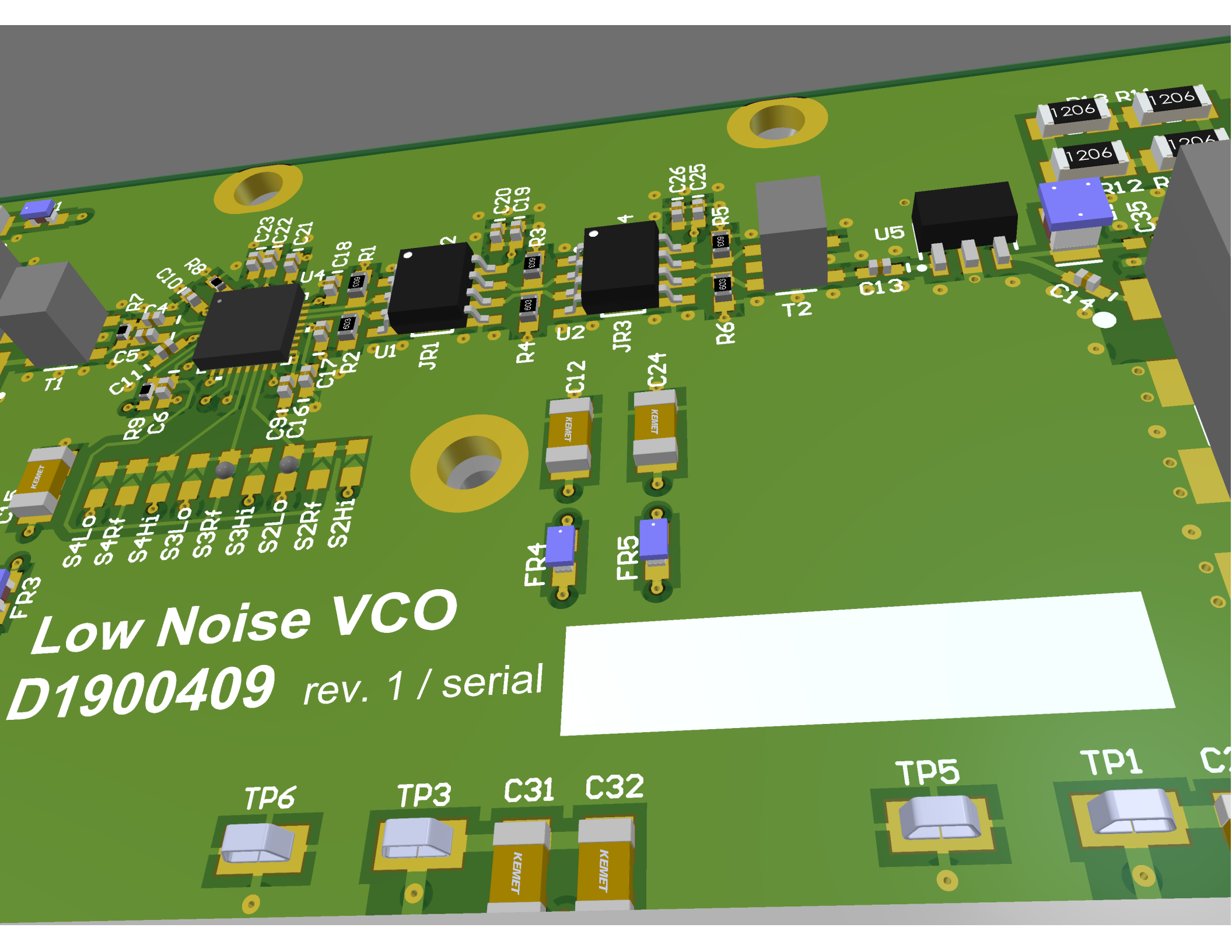
Size B **Number** D1900409 **Revision** 1

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Low Noise VCO

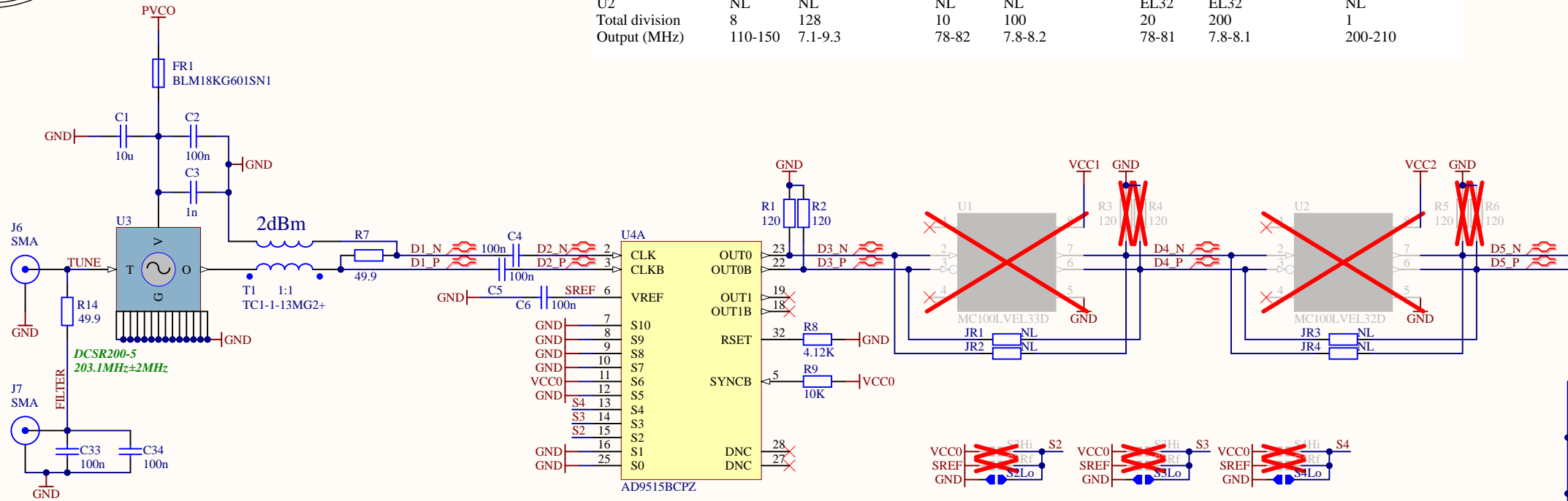
D1900409 rev. 1 / serial



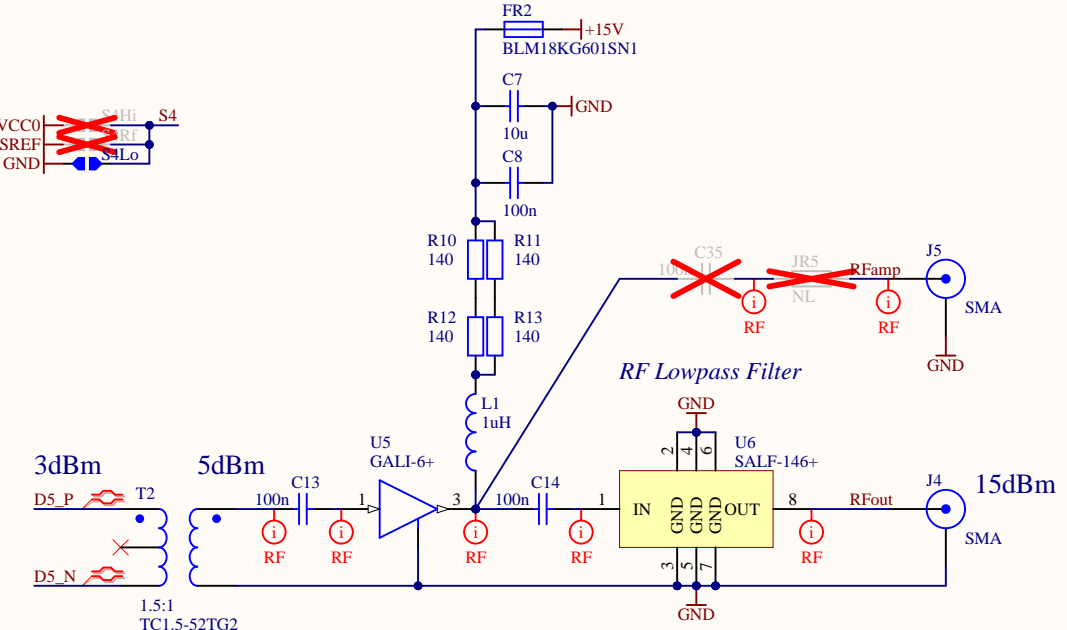
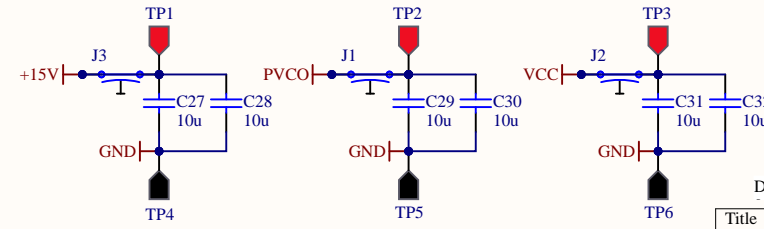
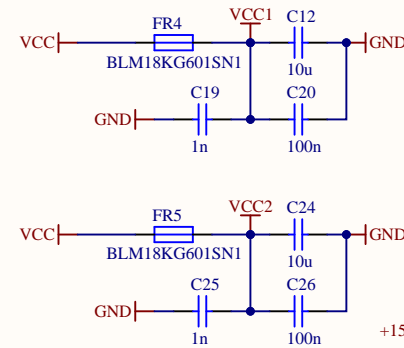
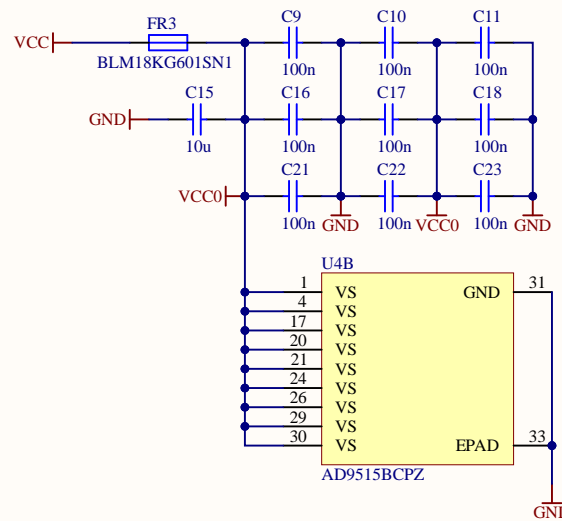


Variant	1050_8	1050_128	800_10	800_100	1600_20	1600_200	203_1
VCO	MFC91119-10	MFC91119-10	CVCO55CCN-0787-0816	CVCO55CCN-0787-0816	DCRO159161-12	DCRO159161-12	DCSR200-5
S2	Hi	Hi	open	Lo	open	Lo	Lo
S3	open	Hi	Ref	Ref	Ref	Ref	Lo
S4	Lo	open	Lo	open	Lo	open	Lo
1st divider	8	32	10	25	10	25	1
U1	NL	EL33	NL	EL33	NL	EL33	NL
U2	NL	NL	NL	NL	EL32	EL32	NL
Total division	8	128	10	100	20	200	1
Output (MHz)	110-150	7.1-9.3	78-82	7.8-8.2	78-81	7.8-8.1	200-210

- M1 Enclosure
LIGO
D1900377-v6
- M2 Lid
LIGO
D1900428-v3
- M3 Terminator
Digi-Key
ACX1251-ND



Alternative parts:	Supply	fLow (MHz)	fHigh (MHz)	Tune
MFC91119-10	10V	910	1190	0.5-20V
CVCO55CCN-0787-0816	5V	787	816	0-9V
DCRO159161-12	12V	1575	1610	0.5-12V
DCSR200-5	5V	200	210	0.5-11V



Frequency (MHz)	Part
110-150	SALF-146+
7.1-9.3	SCLF-10+
80	SCLF-95+ / SALF-78+
8	SCLF-8.4+

Title		Low Noise VCO Box 203_1	
Size	Number	Revision	
B	D1900409	1	
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Low Noise VCO

D1900409 rev. 1 / serial

