BLDC Motor Driver - Realistic View

Top - View

+12V   +5V   +3V3
PHASE A   PHASE B   PHASE C
+3V3A
Debug LED
Fan Control
RS485
HAL Sensor
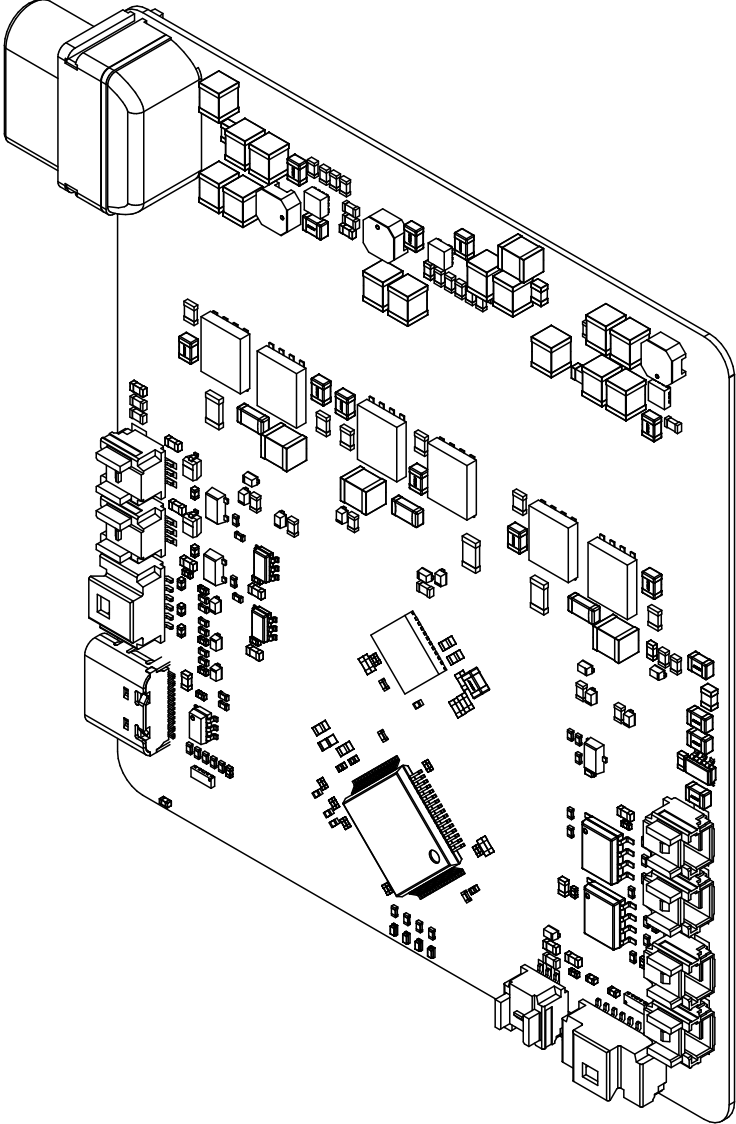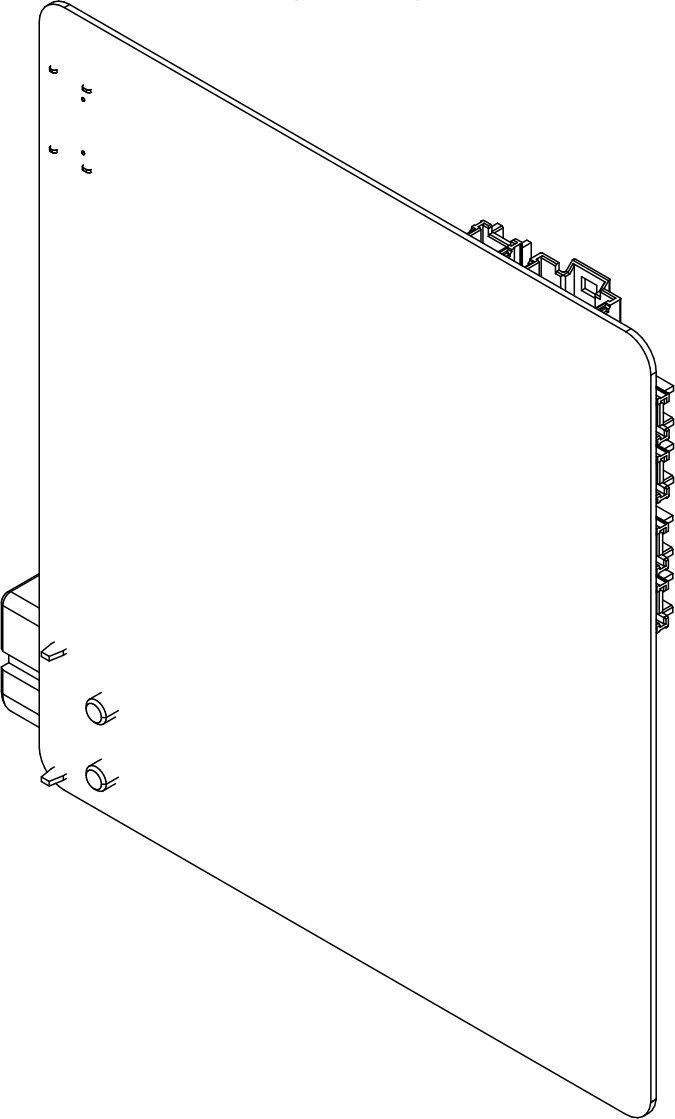CAN
USB FS
User
External NTC
SWD Debug

Bottom - View

BLDC Motor Driver - ISO View

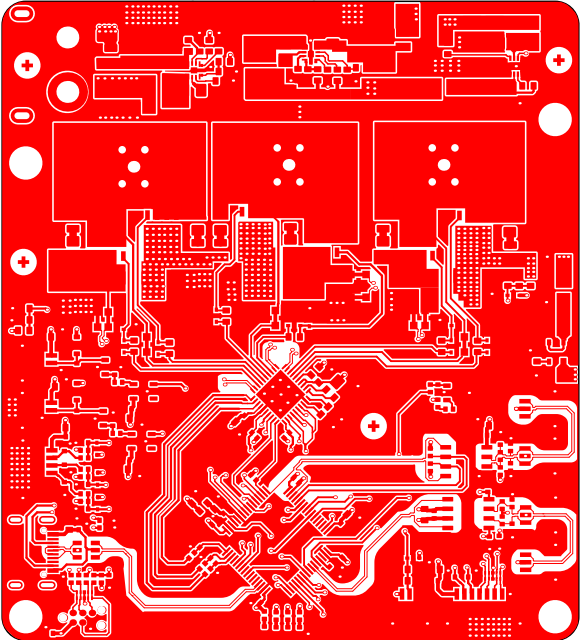View from Top side (Scale 3:2)

View from Bottom side (Scale 3:2)

BLDC Motor Driver - Layer Stackup

Layer Stack Legend

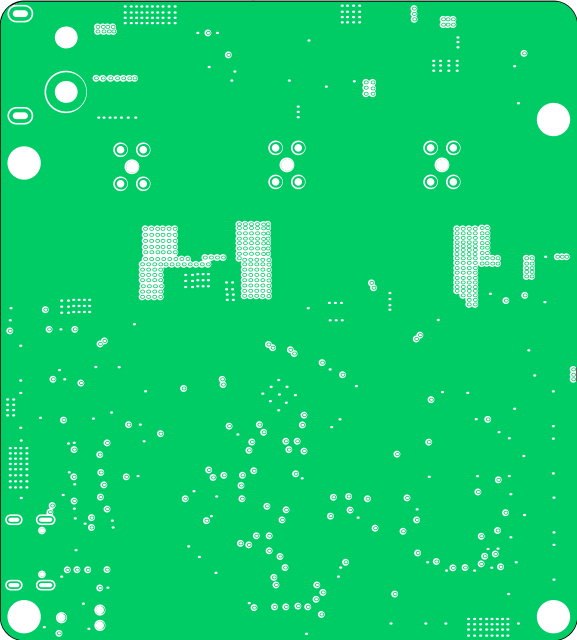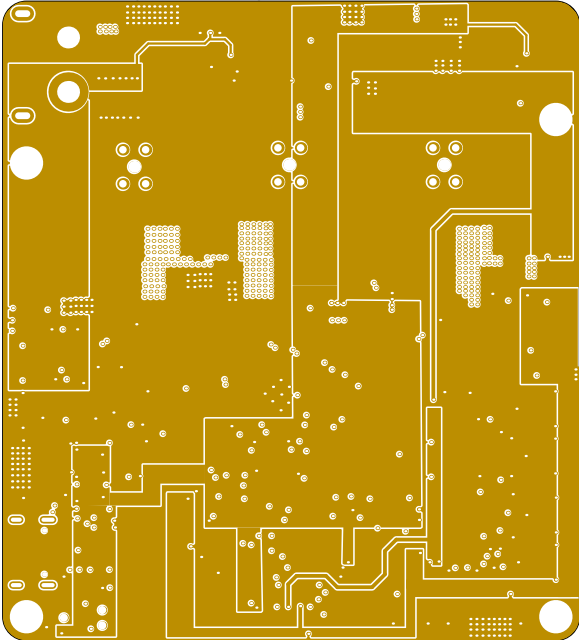| Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.03mm	SM-001	Solder Mask	GTS
PbSn	Top Surface Finish	0.02mm		Surface Finish	
CF-004	**L1 [SIG/PWR]**	**0.04mm**		**Signal**	**GTL**
Prepreg		*0.10mm*	*PP-006*	*Dielectric*	
CF-004	**L2 [GND]**	**0.02mm**		**Signal**	**G1**
Core		*0.08mm*	*Core-035*	*Dielectric*	
CF-004	**L3 [PWR]**	**0.02mm**		**Signal**	**G2**
Prepreg		*0.09mm*	*PP-006*	*Dielectric*	
Prepreg		*0.09mm*	*PP-006*	*Dielectric*	
CF-004	**L4 [SIG/PWR]**	**0.02mm**		**Signal**	**G3**
Core		*0.08mm*	*Core-035*	*Dielectric*	
CF-004	**L5 [GND]**	**0.02mm**		**Signal**	**G4**
Prepreg		*0.10mm*	*PP-006*	*Dielectric*	
CF-004	**L6 [SIG/PWR]**	**0.04mm**		**Signal**	**GBL**
PbSn	Bottom Surface Finish	0.02mm		Surface Finish	
Surface Material	Bottom Solder	0.03mm	SM-001	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

Total thickness: 0.75mm

BLDC Motor Driver - Layers
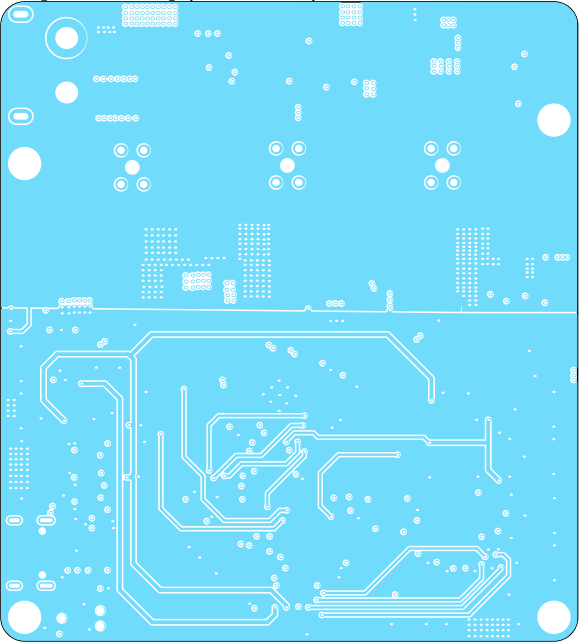
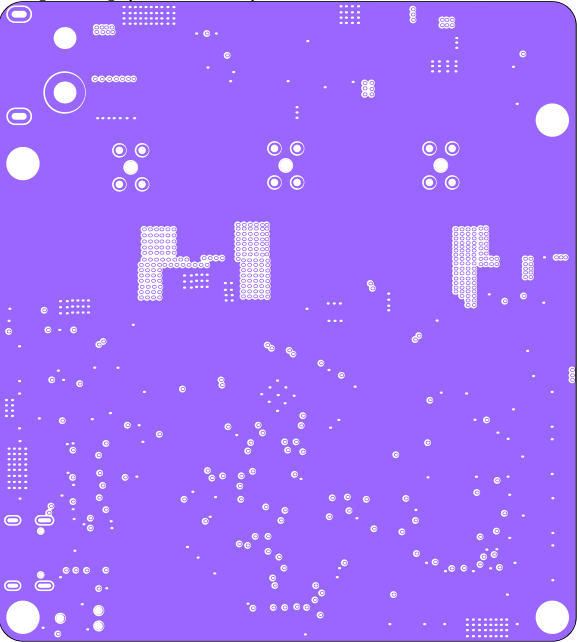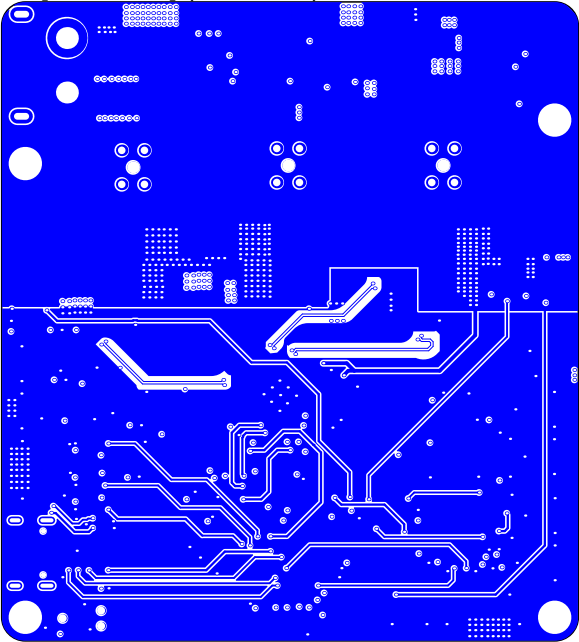## L1 [SIG/PWR] (Scale 1:1)

L2 [GND] (Scale 1:1)

L3 [PWR] (Scale 1:1)

L4 [SIG/PWR] (Scale 1:1)

L5 [GND] (Scale 1:1)

L6 [SIG/PWR] (Scale 1:1)

BLDC Motor Driver - Drill Map

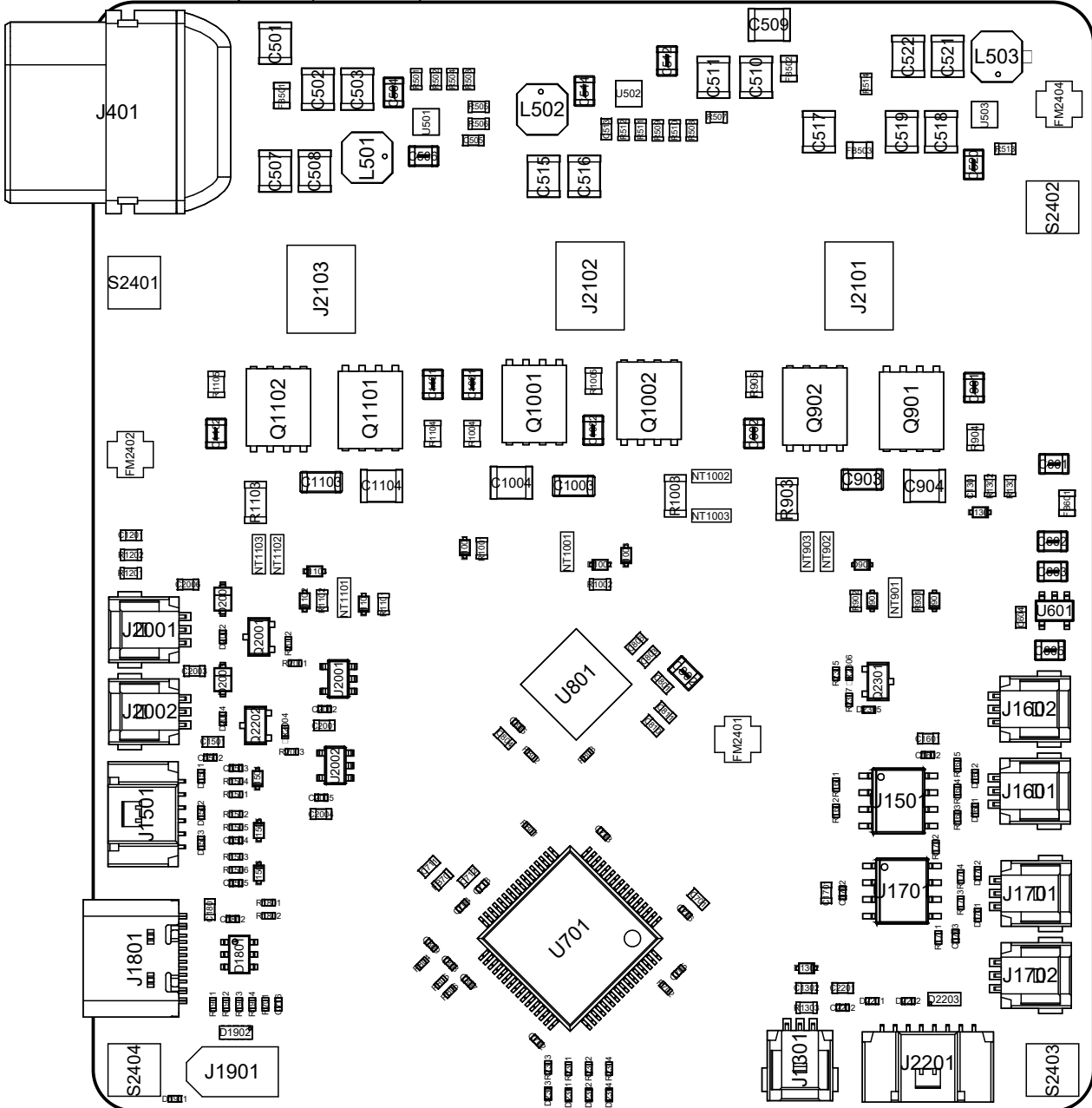View from Top side (Scale 2:1)

Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
◇	732	0.30mm	Plated	
⋈	4	0.55mm	Plated	
✧	2	0.60mm	Non-Plated	
○	2	0.90mm	Plated	
▣	12	1.00mm	Plated	
⊠	3	1.07mm	Non-Plated	
◎	3	1.55mm	Plated	
□	2	2.90mm	Plated	
▽	4	4.00mm	Plated	
	764 Total			
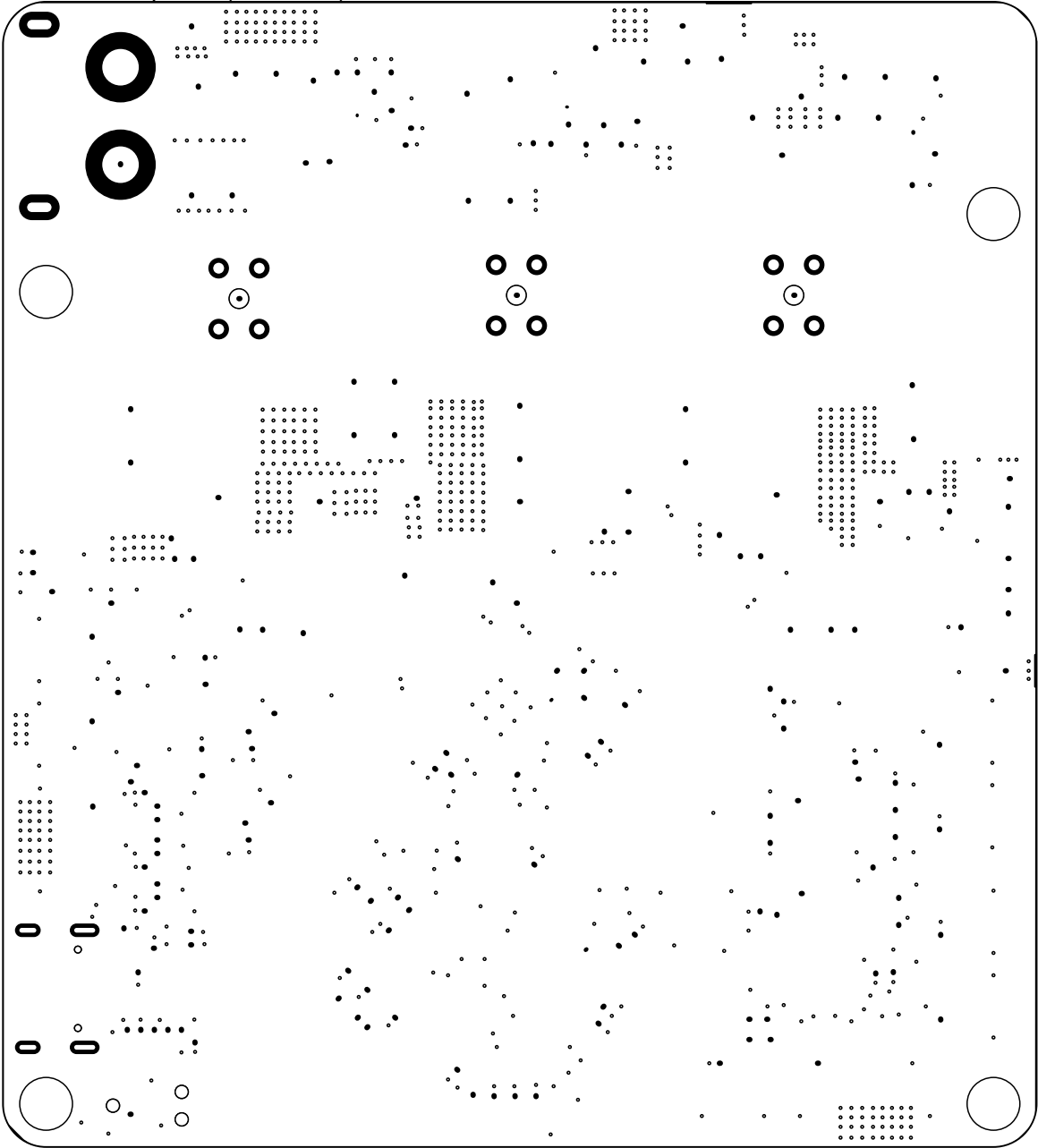
BLDC Motor Driver - Assembly Top

View from Top side (Scale 2:1)

BLDC Motor Driver - Assmebly Bottom

View from Bottom side (Scale 2:1)