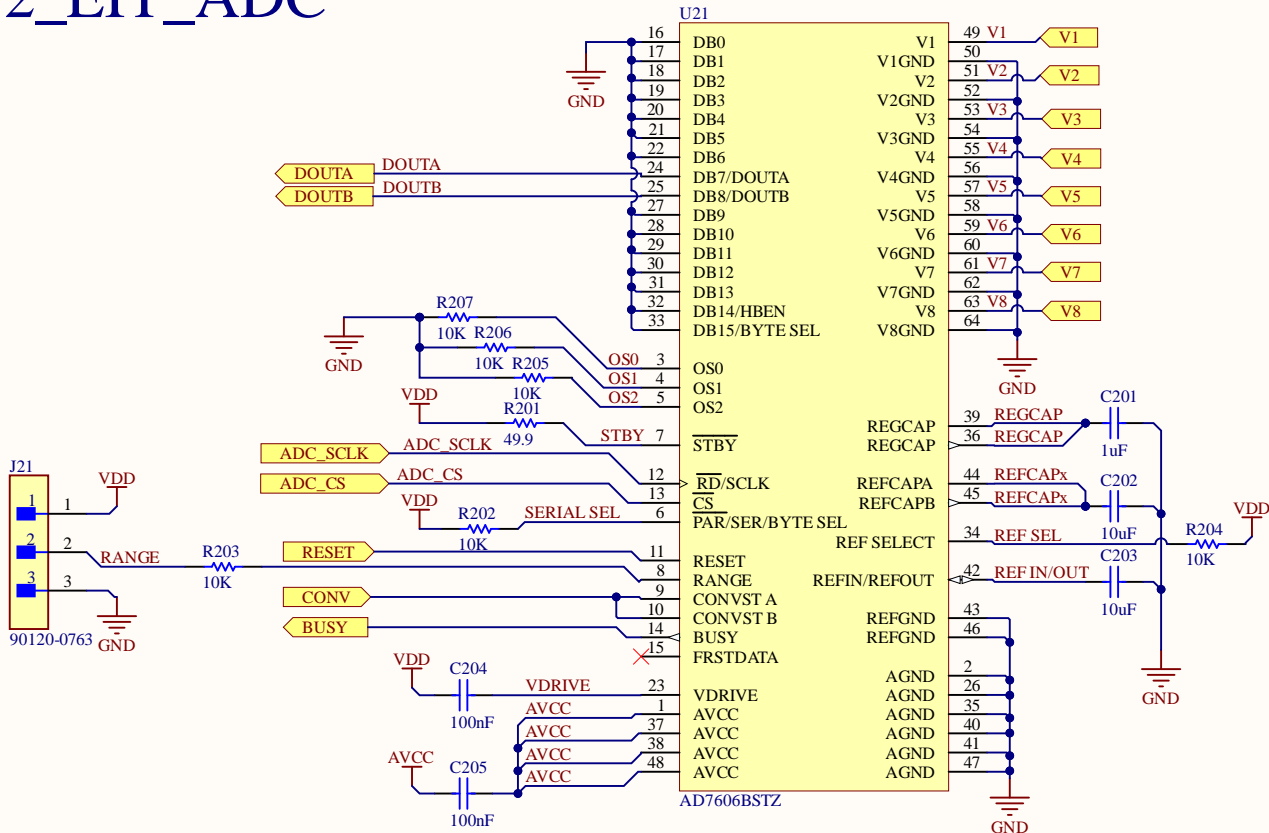


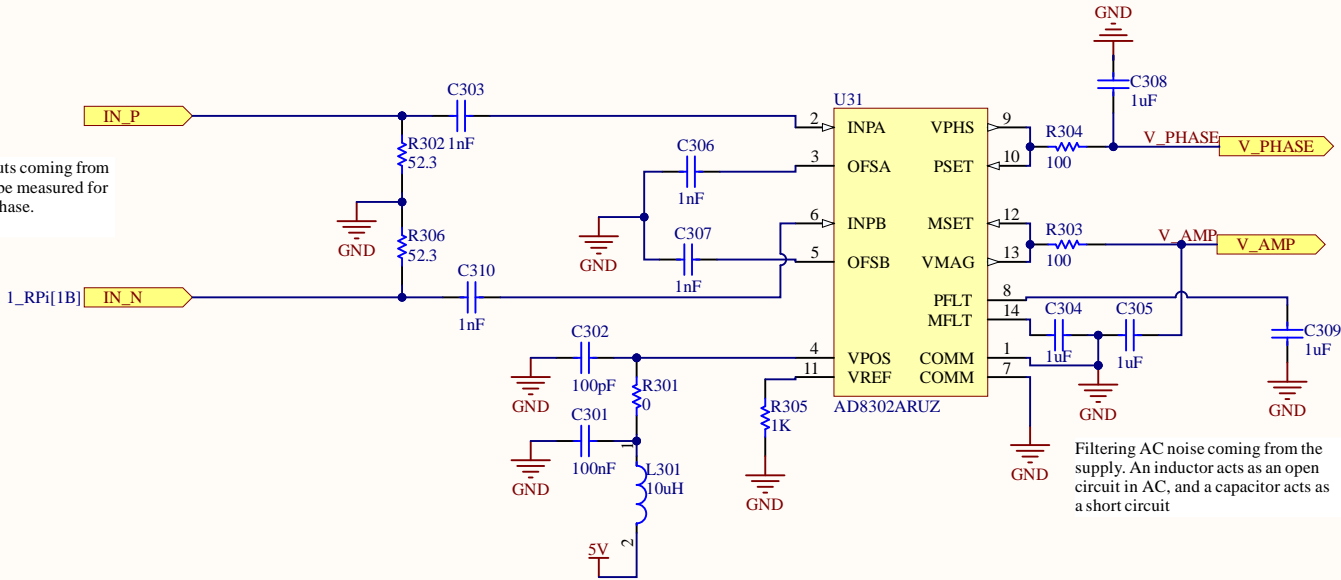
## [2] - 2\_EIT\_ADC



Title [2] - 2_EIT_ADC		
Size A4	Number	Revision
Date:	7/12/2024	Sheet of
File:	Z:\Redesign\Redesign\2_ADC.SchDoc	Drawn By: Pedro Sousa

[3] - 3\_EIT\_Phase-Amplitude-Detector

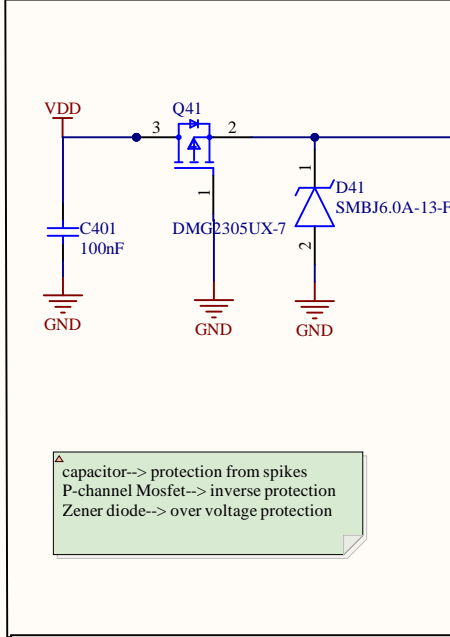
Differential inputs coming from the structure to be measured for amplitude and phase.



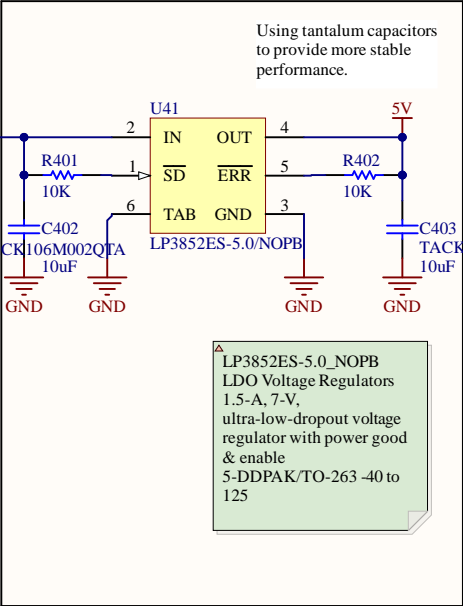
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Phase-Amplitude-Detector-AD8302		
Size	Number	Revision
A4		
Date:	7/12/2024	Sheet of
File:	Z:\Redesign\Redesign\3_Phase_Amp.SchDoc	Drawn By:

[4] 4\_EIT\_Power Supply

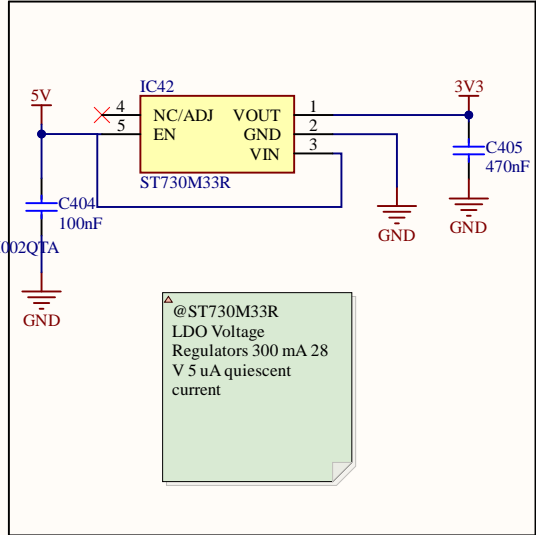
Protecton circuit



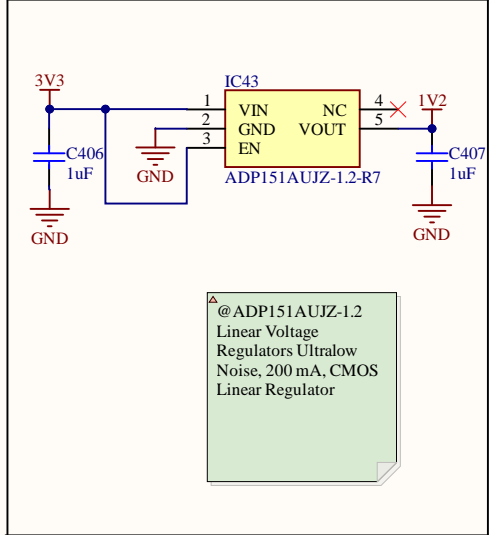
5V-reg



3.3V-reg

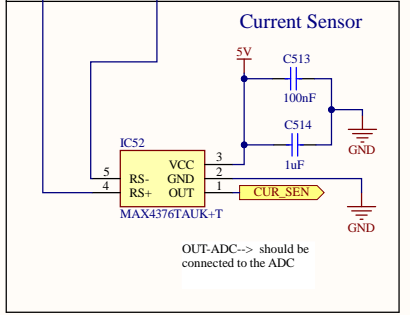
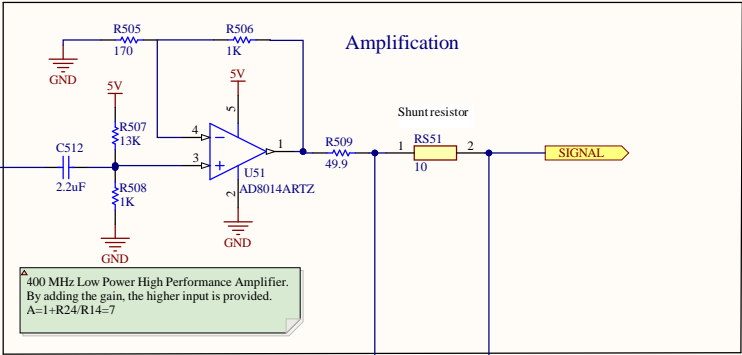
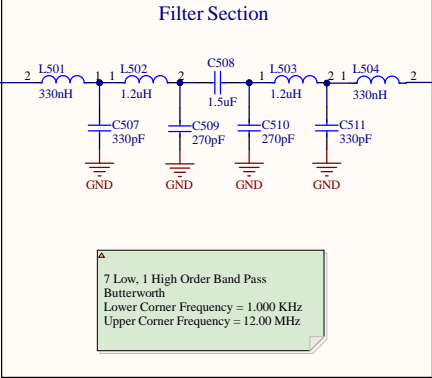
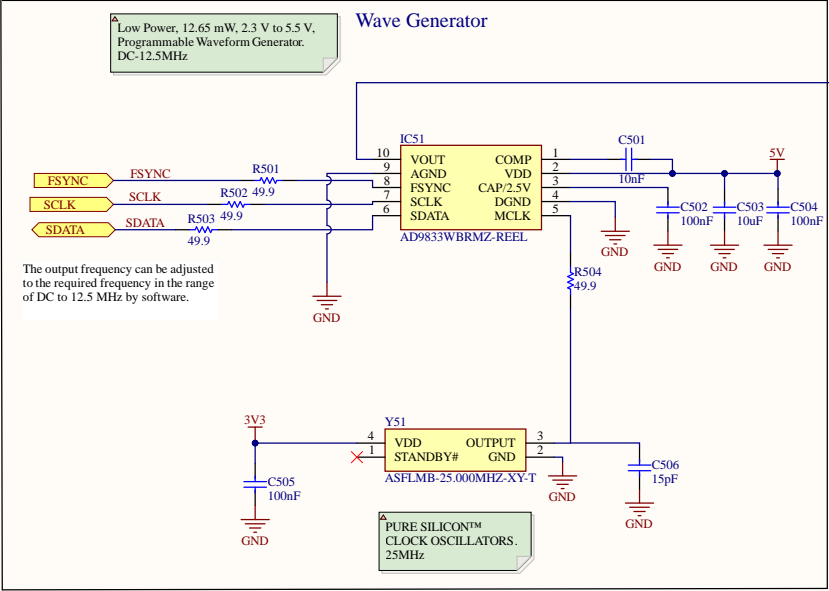


1.2V-reg



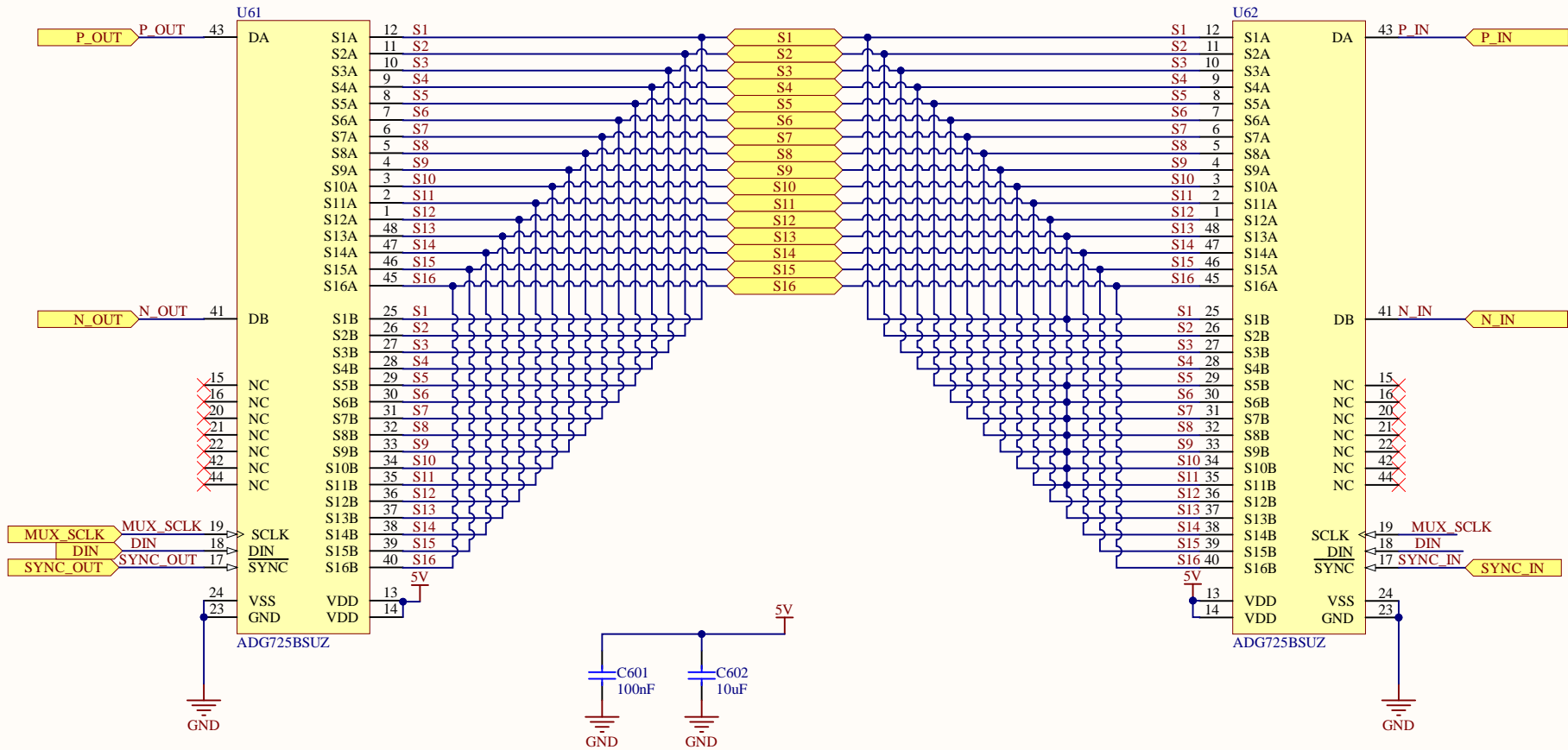
Title Power Supply		
Size A4	Number 3	Revision
Date: 7/12/2024	Sheet of	
File: Z:\Redesign\Redesign\4_Supply.SchDoc	Drawn By:	

[5] 5\_EIT\_Wave Generator



Title		
Wave Generator		
Size	Number	Revision
A3	4	
Date:	7/12/2024	Sheet of
File:	Z:\Redesign\Redesign_5_WG.SchDoc	Drawn By:

[6] 6\_EIT\_MUX



Title		
Multiplexer		
Size	Number	Revision
A4	5	
Date:	7/12/2024	Sheet of
File:	Z:\Redesign\Redesign\6_MUX.SchDoc	Drawn By:

Line #	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
0		generic	R001		Not managed		1							
1K		generic	R005		Not managed		1							
10		Res Thick Film 2512 10 Ohm 1% 2W±100ppm/°C Molded SMD SMD Paper T/R	R051		Not managed		1				Farnell	2824741		
10K		generic	R001, R002		Not managed		2							
52.3		generic	R002, R006		Not managed		2							
100		generic	R003, R004		Not managed		2							
90120-0763		CONN HEADER VERT 3POS 2.54MM	J21		Unknown server		1	Molex	90120-0763	Volume Production	Mouser	538-90120-0763	0.98	0.98
61300211121			P11		Unknown server		1	Würth Electronics	61300211121	Volume Production	Mouser	710-61300211121	0.13	0.13
61300511121			P12, P13		Unknown server		2	Würth Electronics	61300511121	Volume Production	Mouser	710-61300511121	0.26	0.52
61304021821			J11		Unknown server		1	Würth Electronics	61304021821		Digkey	732-61304021821-ND	1.92	1.92
66201621122			P14		Unknown server		1	Würth Electronics	66201621122	Volume Production	Mouser	710-66201621122	1.33	1.33
AD7606BSTZ		8 Channel Data Acquisition System with 16- Bit, Bipolar Input, Simultaneous Sampling Analog- to-Digital Converter with Parallel, Serial and SPI Interface, 200KSPS, -40 to +85 degC, SF-64-2, Pb-Free, Tray	U21		Unknown server		1	Analog Devices	AD7606BSTZ	Volume Production	Arrow Electronics	AD7606BSTZ	38.38	38.38
AD8014ARTZ		Single Channel Very Low Noise Operational Amplifier, 400 MHz BW, 4KV/us SR, Industrial, 5- pin SOT23 (RJ-5), Reel	U51		Unknown server		1	Analog Devices	AD8014ARTZREEL7	Volume Production	Mouser	584-AD8014ARTZ-R7	4.15	4.15
AD8302ARLJZ		LF-2.7 GHz RF IF Gain and Phase Detector, 60ns Response Time, RJ-14, Pb-Free, 96 Tube	U31		Unknown server		1	Analog Devices	AD8302ARLJZ	Volume Production	Mouser	584-AD8302ARLJZ	29.11	29.11
AD8833MBRMZ-REEL		Integrated Circuit	IC51		Not managed		1							
ADG725BSJZ		1.8 to 5.5 V / ±2.5 V, 4 Ohm, Serially Controlled, 16- Channel Analog Multiplexer, -40 to 85 degC, 48-pin QFP (SU-48), Tray	U61, U62		Unknown server		2	Analog Devices	ADG725BSJZ	Volume Production	Mouser	584-ADG725BSJZ	17.4	34.8
ADP151ALJZ-1.2-17		Integrated Circuit	IC43		Not managed		1							
ASPLMB-25.00MHzXYT		Crystal or Oscillator	Y51		Not managed		1							
DMG2305JX-7		MC9FET PCH20V 4.2A SOT23	Q41		Unknown server		1	Diodes	DMG2305JX-7	Volume Production	Newark	8276564	0.081	0.081
generic		generic	C201, C304, C305, C308, C309, C406, C407, C514		Not managed		8							
generic		generic	C202, C203, C303, C302		Not managed		4							
generic		generic	C204, C205, C301, C401, C404, C502, C504, C505, C513, C601		Not managed		10							
generic		generic	C302		Not managed		1							
generic		generic	C303, C306, C307, C310		Not managed		4							
generic		generic	C405		Not managed		1							
generic		generic	C501		Not managed		1							
generic		generic	C506		Not managed		1							
generic		generic	C507, C511		Not managed		2							
generic		generic	C508		Not managed		1							
generic		generic	C509, C510		Not managed		2							
generic		generic	C512		Not managed		1							
LP3652ES-5.0/NOPB		1.5A Fast Ultra Low Dropout Linear Regulator, 5-pin TO-263, Pb- Free	U41		Unknown server		1							
LQW18AN10NG000D		Wire Wound RF Inductor 10nH ±2% 650mA 0.110 0603 (1608)	L301, L501, L502, L503, L504		Unknown server		5	Murata	LQW18AN10NG000D	Volume Production	Digkey	490-6856-1-ND	0.16	0.8
MAX4376TALK-T		MAX4376 Series 28 V 2MHz Buffer Current Sense Operational Amplifier - SOT-23 5	IC52		Not managed		1				Mouser	700-MAX4376TALK-T		
RD0633UR-070RL		Chip Resistor, 0 Ohm, ±- 5%, 0.1 W, -55 to 155 degC, 0603 (1608 Metric), Reels, Tape and Reel	R101, R102, R103, R104, R105, R106, R201, R202, R203, R204, R205, R206, R207, R201, R202, R503, R504, R505, R506, R507, R508, R509		Unknown server		22	Yageo	RD0633UR-070RL	Volume Production	Newark	74K0306	0.007	0.175
9MBJ04-13-F		TVS Diode (Uni- directional)	D41		Not managed		1							
SI730UB3R		Integrated Circuit	IC62		Not managed		1							
TACK106M0020TA			Q402, Q403		Unknown server		2							
U.FLR-SMT(10)		CONN U.FLR RPT STR50 OHM SMD	J12, J13		Unknown server		2							