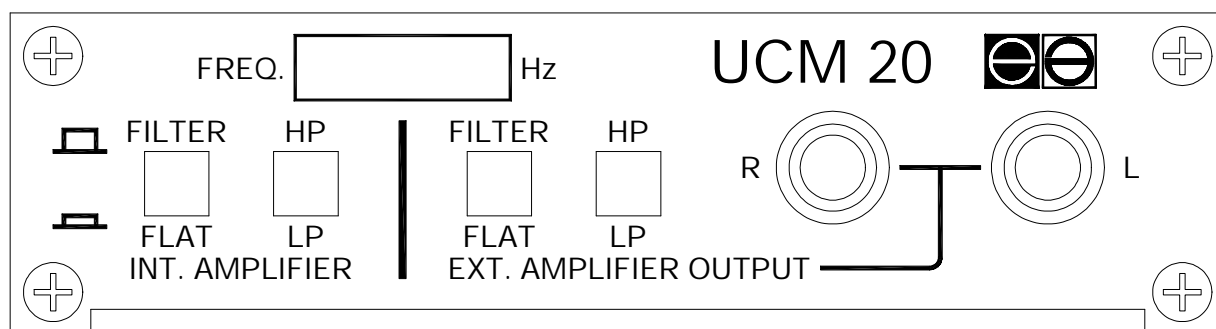
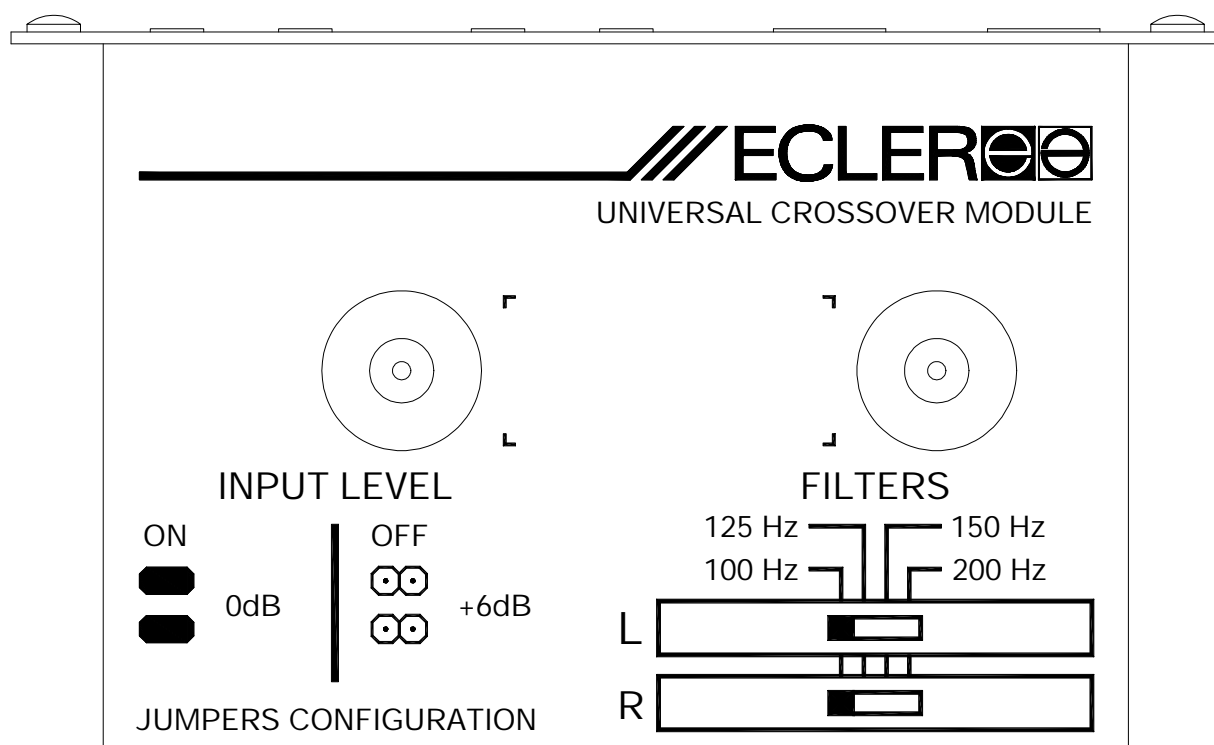


UCM 20

SERVICE MANUAL



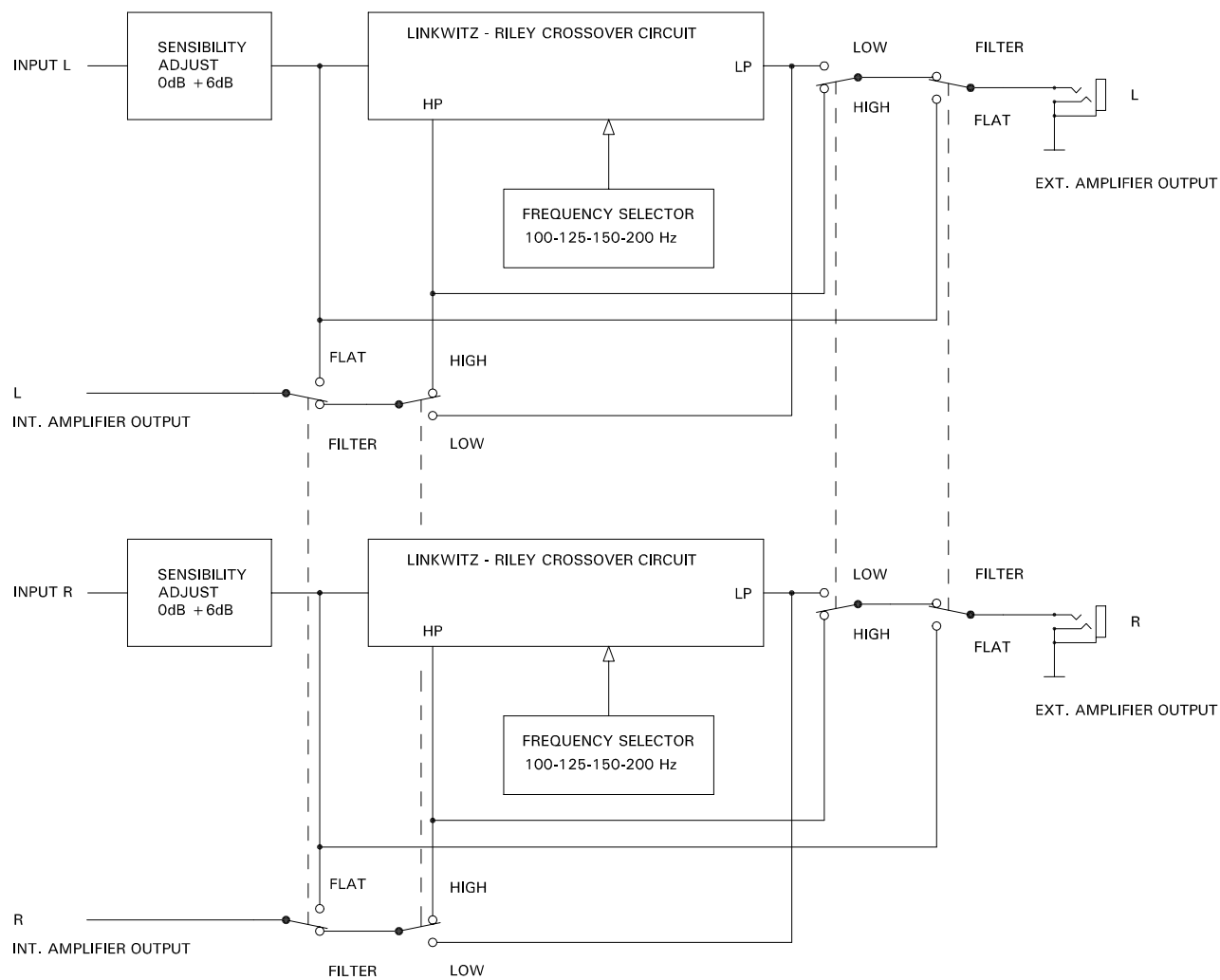
ECLEREO

AUDIO CREATIVE POWER

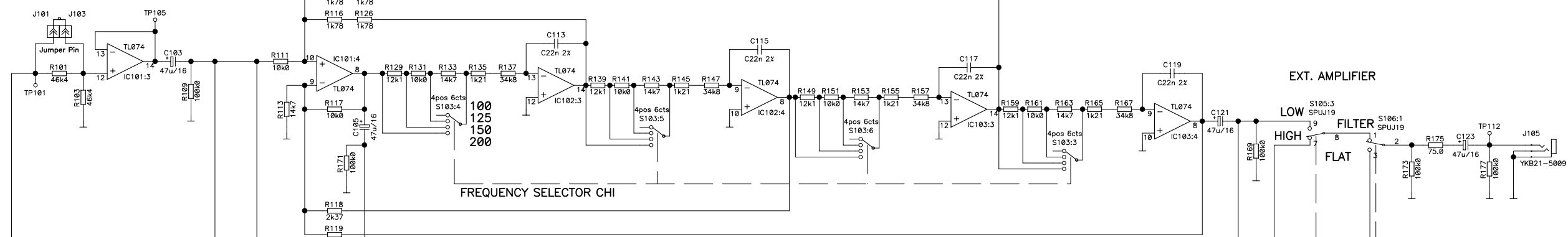
SERVICE MANUAL UCM 20

INDEX

- BLOCK DIAGRAM
- SCHEMATICS
- COMPONENTS LOCATION SCHEMA
- TECHNICAL CHARACTERISTICS
- WIRING AND CONFIGURATION DIAGRAM
- MECHANICAL DIAGRAM
- PACKING DIAGRAM

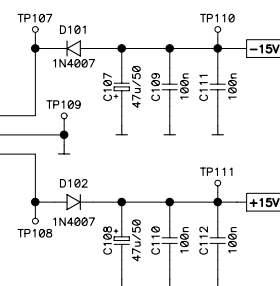


Sensibility Adjust
with 1V without 2V

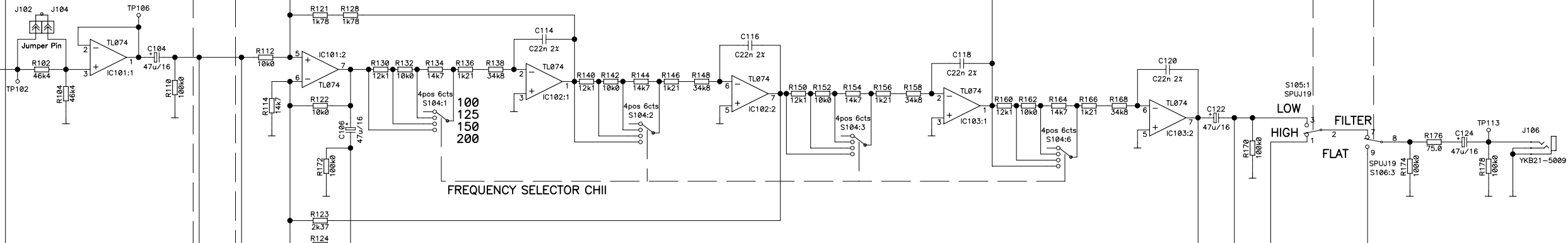


INT. AMPLIFIER

FLAT
S101:3
SPUJ19
9
8
7
6
5
4
3
2
1
0
FILTER
HIGH
LOW



Sensibility Adjust
with 1V without 2V



FLAT
S101:1
SPUJ19
9
8
7
6
5
4
3
2
1
0
FILTER
HIGH
LOW

11.0974 Printed Board



drawn by: M. Amoros date: 030226 approved: Domingo Mele

project n: F01-03

product n: UCM20

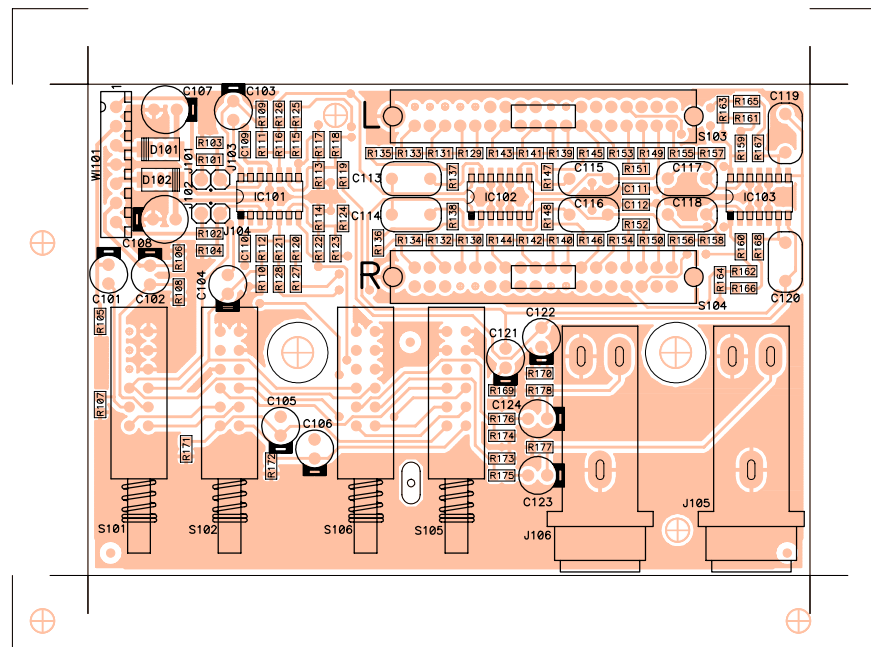
title:

Overall Sch.

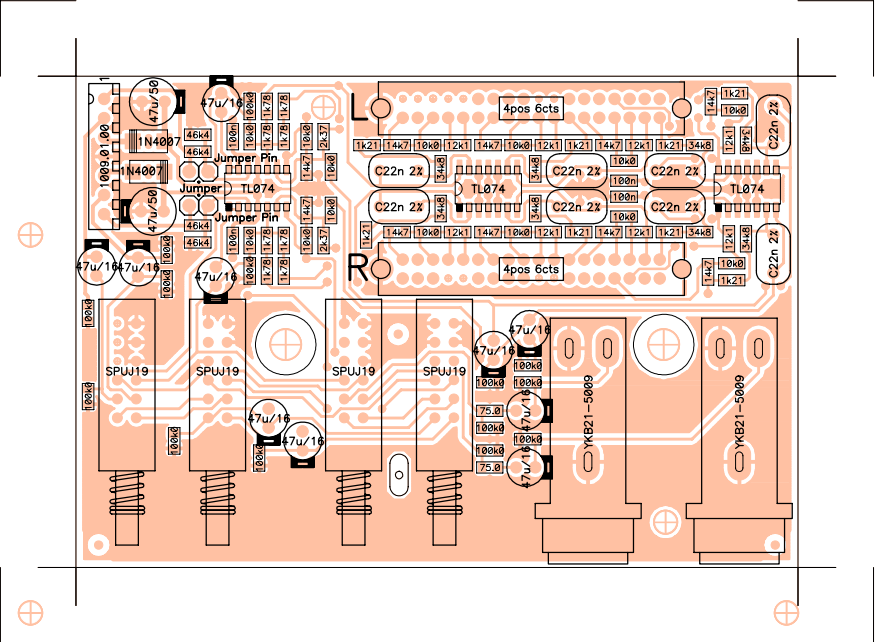
number: 10.0651

version: 01.00

page: 1 of 1



<div>ECLEREE</div> <div>LABORATORIO DE ELECTRO-ACUSTICA S.A.</div>		related to:		circuit no: 11.0974-01.01	side: Component		
				schema no: 10.0651-01.00			
				insertion file no: 81.0082-01.00	view: Reference		
project n: F01-03		title: Filters Ct.					
number: 33.0847	version: 01.01					product n: UCM20	
drawn by: M. Amoros	date: 030226					approved: Domingo Mele	



<div>ECLEREE</div> <div>LABORATORIO DE ELECTRO-ACUSTICA S.A.</div>		related to: circuit no: 11.0974-01.01 schema no: 10.0651-01.00 insertion file no: 81.0082-01.00		side: Component
		project n: F01-03	title:	view: Value
number: 33.0848	version: 01.01	product n: UCM20	Filters Ct.	
drawn by: M. Amoros	date: 030226	approved: Domingo Mele		

PARTS LIST: PRINTED CIRCUIT 11.0974.01.01

Code	Description	Reference
FCCE10000000	47u/16	C101
FCCE10000000	47u/16	C102
FCCE10000000	47u/16	C103
FCCE10000000	47u/16	C104
FCCE10000000	47u/16	C105
FCCE10000000	47u/16	C106
FCCE25047000	47u/50	C107
FCCE25047000	47u/50	C108
FCXCD4100000	100n	C109
FCXCD4100000	100n	C110
FCXCD4100000	100n	C111
FCXCD4100000	100n	C112
FCCDN0220000	C22n 2%	C113
FCCDN0220000	C22n 2%	C114
FCCDN0220000	C22n 2%	C115
FCCDN0220000	C22n 2%	C116
FCCDN0220000	C22n 2%	C117
FCCDN0220000	C22n 2%	C118
FCCDN0220000	C22n 2%	C119
FCCDN0220000	C22n 2%	C120
FCCE10000000	47u/16	C121
FCCE10000000	47u/16	C122
FCCE10000000	47u/16	C123
FCCE10000000	47u/16	C124
FCCI09740000	11.0974 Printed Board	C101
FCXDD4007000	1N4007	D101
FCXDD4007000	1N4007	D102
FCIC07401000	TL074	IC101
FCIC07401000	TL074	IC102
FCIC07401000	TL074	IC103
FCTERM010000	Jumper Pin	J101
FCTERM010000	Jumper Pin	J102
FCTERM010000	Jumper Pin	J103
FCTERM010000	Jumper Pin	J104
FCBASJ020000	YKB21-5009	J105
FCBASJ020000	YKB21-5009	J106
FCMJ00010000	Jumper	MJ101
FCMJ00010000	Jumper	MJ102
FCXR54464000	46k4	R101
FCXR54464000	46k4	R102
FCXR54464000	46k4	R103
FCXR54464000	46k4	R104
FCXR55100000	100k0	R105
FCXR55100000	100k0	R106
FCXR55100000	100k0	R107
FCXR55100000	100k0	R108
FCXR55100000	100k0	R109
FCXR55100000	100k0	R110
FCXR54100000	10k0	R111
FCXR54100000	10k0	R112
FCXR54147000	14k7	R113
FCXR54147000	14k7	R114
FCXR53178000	1k78	R115
FCXR53178000	1k78	R116
FCXR54100000	10k0	R117
FCXR53237000	2k37	R118

PARTS LIST: PRINTED CIRCUIT 11.0974.01.01

Code	Description	Reference
FCXR54100000	10k0	R119
FCXR53178000	1k78	R120
FCXR53178000	1k78	R121
FCXR54100000	10k0	R122
FCXR53237000	2k37	R123
FCXR54100000	10k0	R124
FCXR53178000	1k78	R125
FCXR53178000	1k78	R126
FCXR53178000	1k78	R127
FCXR53178000	1k78	R128
FCXR54121000	12k1	R129
FCXR54121000	12k1	R130
FCXR54100000	10k0	R131
FCXR54100000	10k0	R132
FCXR54147000	14k7	R133
FCXR54147000	14k7	R134
FCXR53121000	1k21	R135
FCXR53121000	1k21	R136
FCXR54348000	34k8	R137
FCXR54348000	34k8	R138
FCXR54121000	12k1	R139
FCXR54121000	12k1	R140
FCXR54100000	10k0	R141
FCXR54100000	10k0	R142
FCXR54147000	14k7	R143
FCXR54147000	14k7	R144
FCXR53121000	1k21	R145
FCXR53121000	1k21	R146
FCXR54348000	34k8	R147
FCXR54348000	34k8	R148
FCXR54121000	12k1	R149
FCXR54121000	12k1	R150
FCXR54100000	10k0	R151
FCXR54100000	10k0	R152
FCXR54147000	14k7	R153
FCXR54147000	14k7	R154
FCXR53121000	1k21	R155
FCXR53121000	1k21	R156
FCXR54348000	34k8	R157
FCXR54348000	34k8	R158
FCXR54121000	12k1	R159
FCXR54121000	12k1	R160
FCXR54100000	10k0	R161
FCXR54100000	10k0	R162
FCXR54147000	14k7	R163
FCXR54147000	14k7	R164
FCXR53121000	1k21	R165
FCXR53121000	1k21	R166
FCXR54348000	34k8	R167
FCXR54348000	34k8	R168
FCXR55100000	100k0	R169
FCXR55100000	100k0	R170
FCXR55100000	100k0	R171
FCXR55100000	100k0	R172
FCXR55100000	100k0	R173
FCXR55100000	100k0	R174

PARTS LIST: PRINTED CIRCUIT 11.0974.01.01

Code		Description	Reference
FCXR51750000	75.0		R175
FCXR51750000	75.0		R176
FCXR55100000	100k0		R177
FCXR55100000	100k0		R178
FCINTAP01200	SPUJ19		S101
FCINTAP01200	SPUJ19		S102
FCINTD750000	4pos 6cts		S103
FCINTD750000	4pos 6cts		S104
FCINTAP01200	SPUJ19		S105
FCINTAP01200	SPUJ19		S106
FC4M00910000	1009.01.00		WI101

Nom. Inputs Sensitivity/Impedance 0(+ 6) * dBV/ > 46kΩ

Outputs Level/Minimum Load (UNBAL) 0dBV/2kΩ

THD + N < 0.01 %

Signal Noise Ratio > 100dB

Crosstalk > 100dB

Linkwitz - Riley Filters

24dB/oct Slope in all the cases

Cut frequency at -6dB 100 Hz *

Cut frequency at -6dB 125 Hz *

Cut frequency at -6dB 150 Hz *

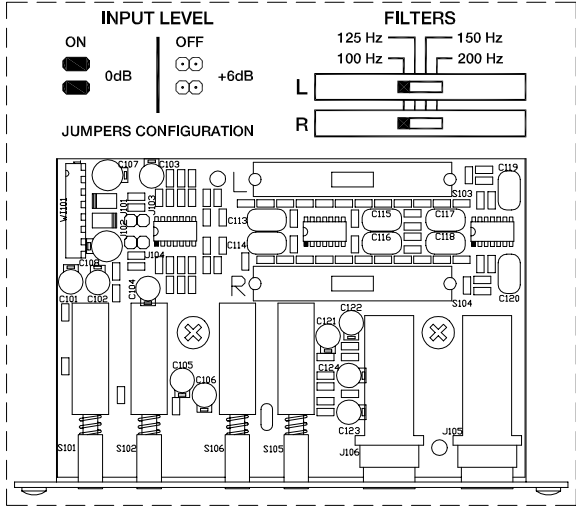
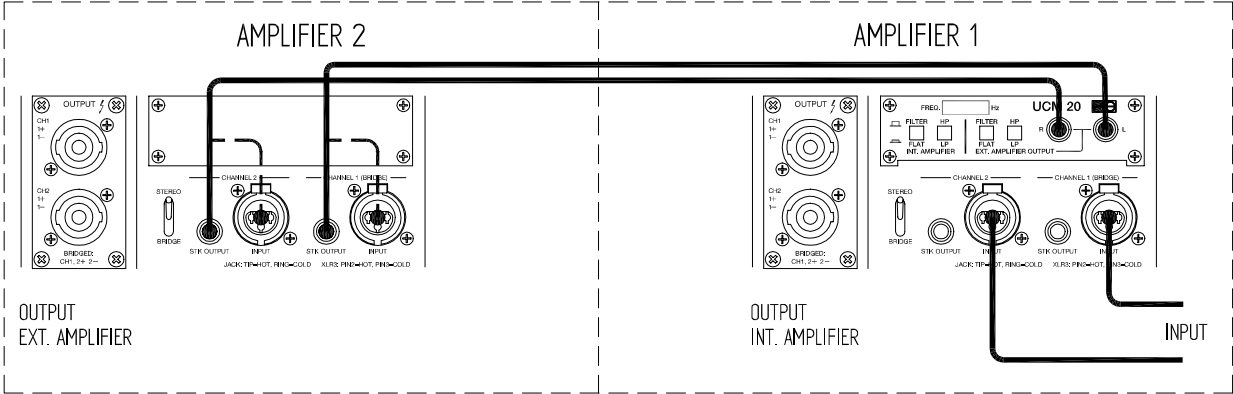
Cut frequency at -6dB 200 Hz *

Dimensions Panel 30x113mm

Depth 80mm

Weight 125g.

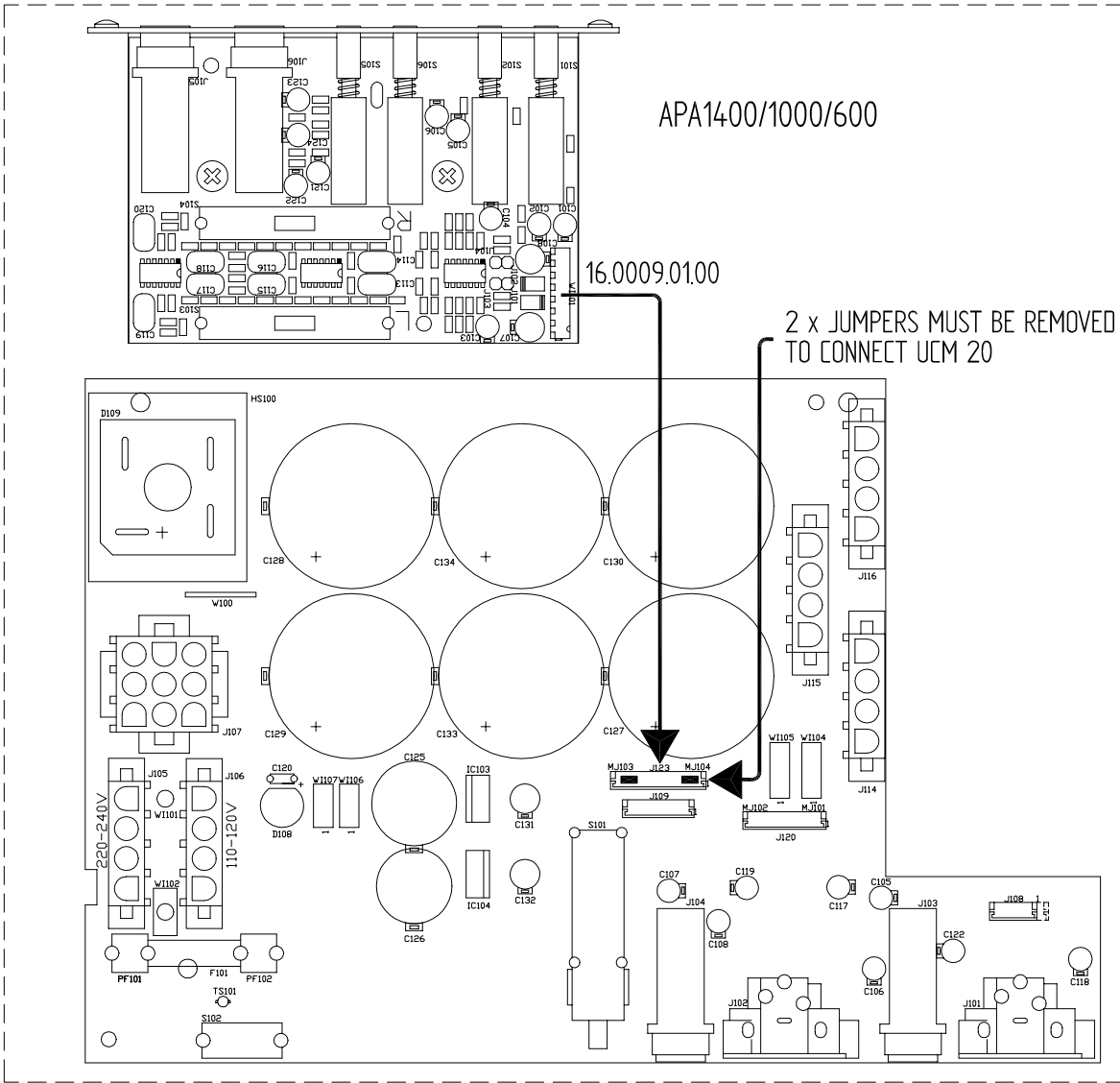
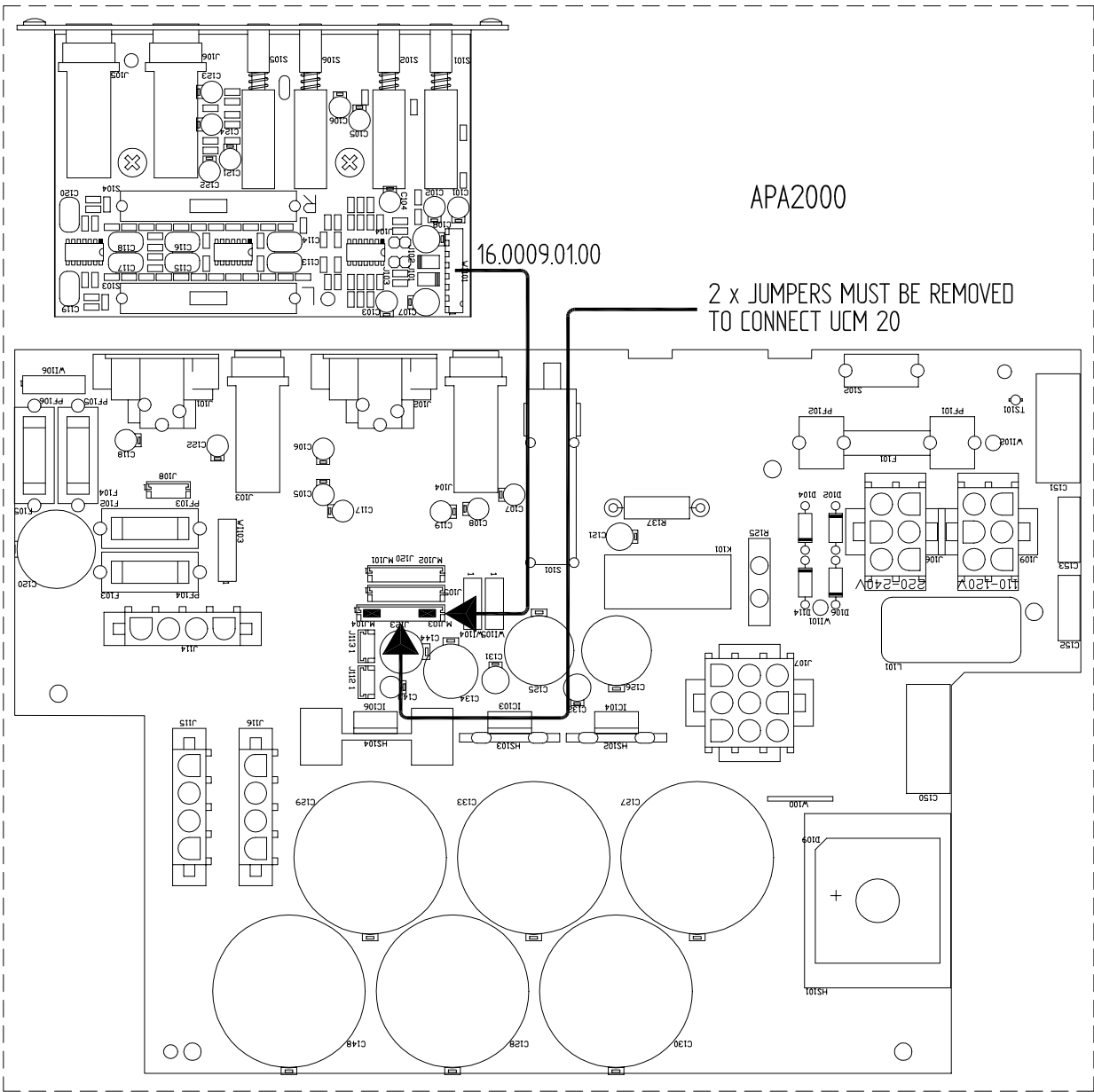
*Internally selectable

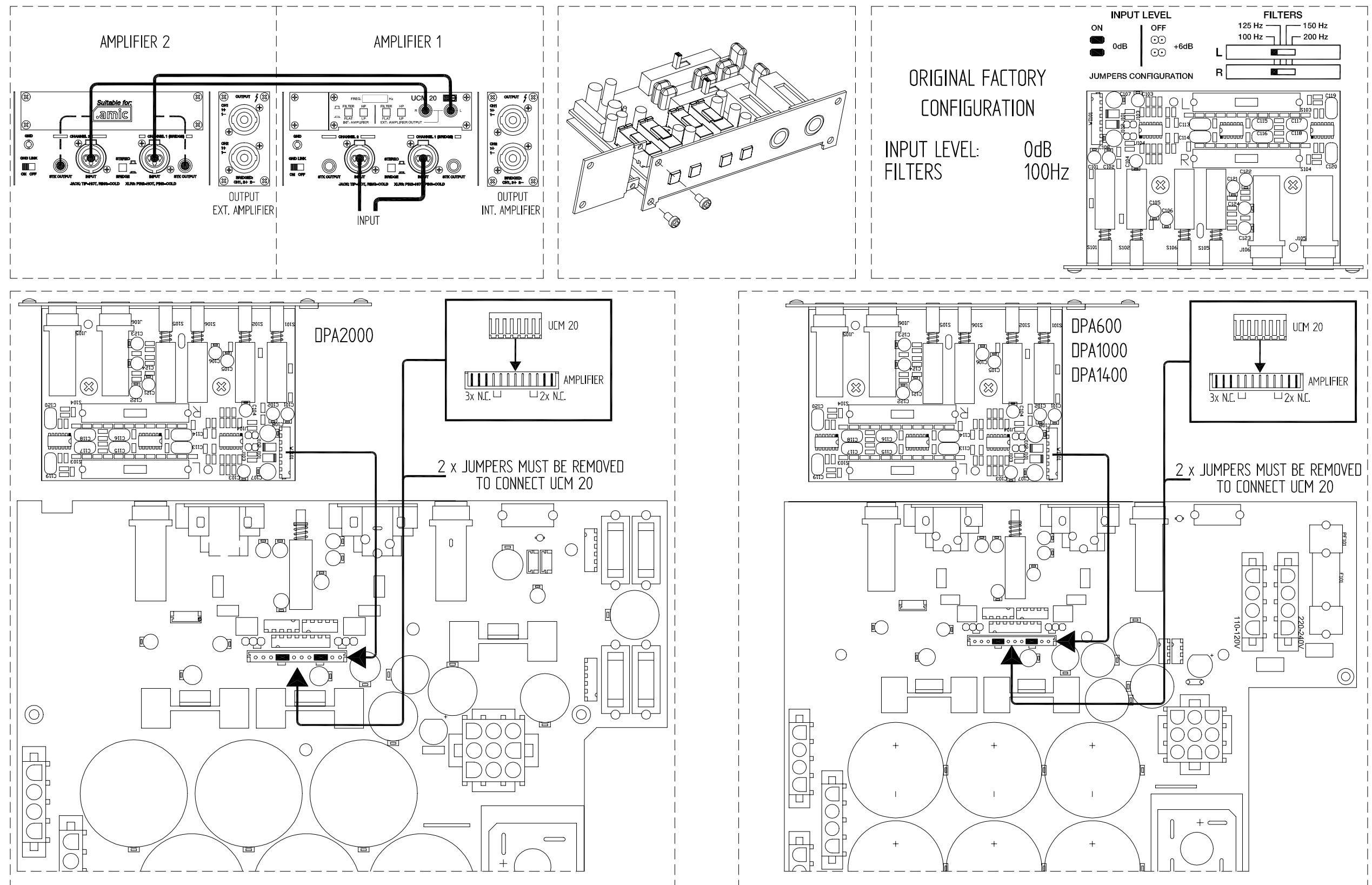


ORIGINAL FACTORY CONFIGURATION

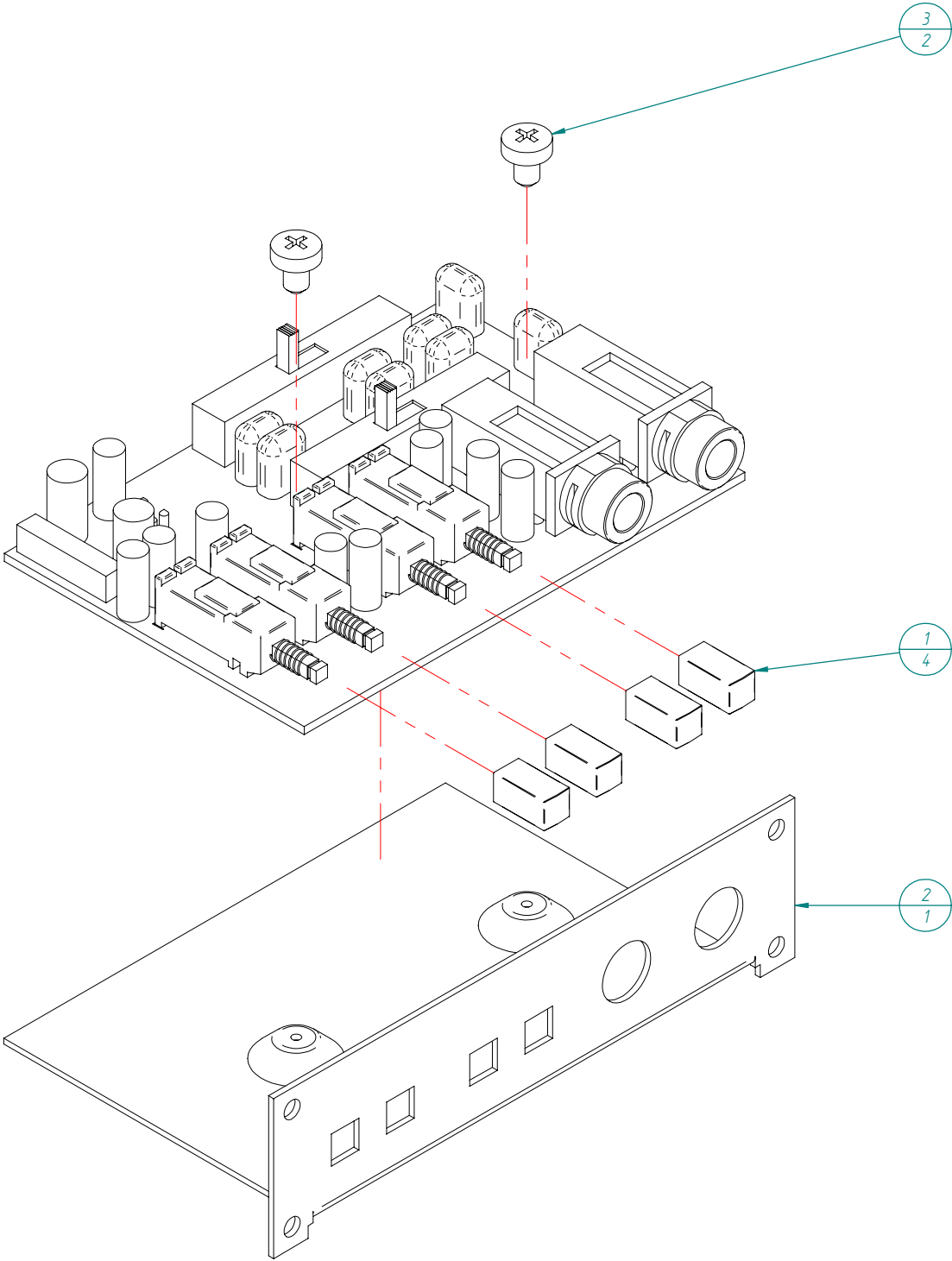
INPUT LEVEL: 0dB

FILTERS 100Hz

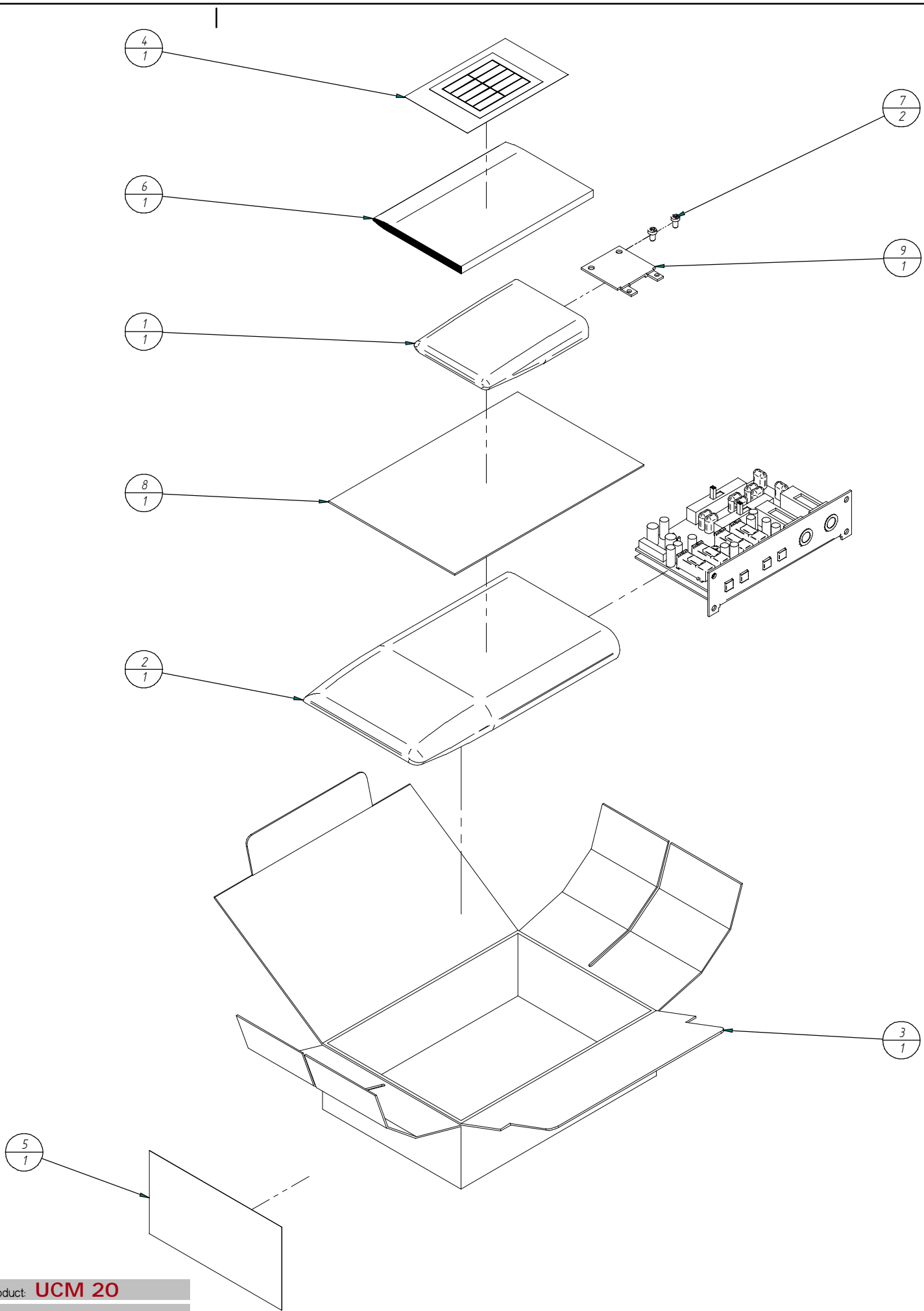




Nº	Qty	ECLER Code	Description
1	4	FCBOTRE01000	SWITCH KNOB 5,5X5,5 WHITE
2	1	FP0278700000	BASE CHASSIS
3	2	FRT804006000	SCREW M4x6 SPANLO BLACK



Nº	Qty	ECLER Code	Description
1	1	FCBOL0010000	BAG 60x80
2	1	FCBOL0020000	PLASTIC BAG 120x180
3	1	FCCAJS30000	PACKING CARDBOARD BOX
4	1	FEETI0504000	STICKERS FOR INPUTS LABELLED
5	1	FEETI0951140	PRODUCT LABEL PACK (ONE FOR EACH UNIT)
6	1	FCMANUCM2000	USER MANUAL
7	2	FC7850300500	SCREW M3x5 REDUCED HEAD
8	1	FC7ARJG000000	WARRANTY CARD
9	1	FP0286100000	ADDITIONAL UCM CHASSIS PLATE



drawn: *Jordi Folch*

date: *050318*

project: **F01-03**

product: **UCM 20**

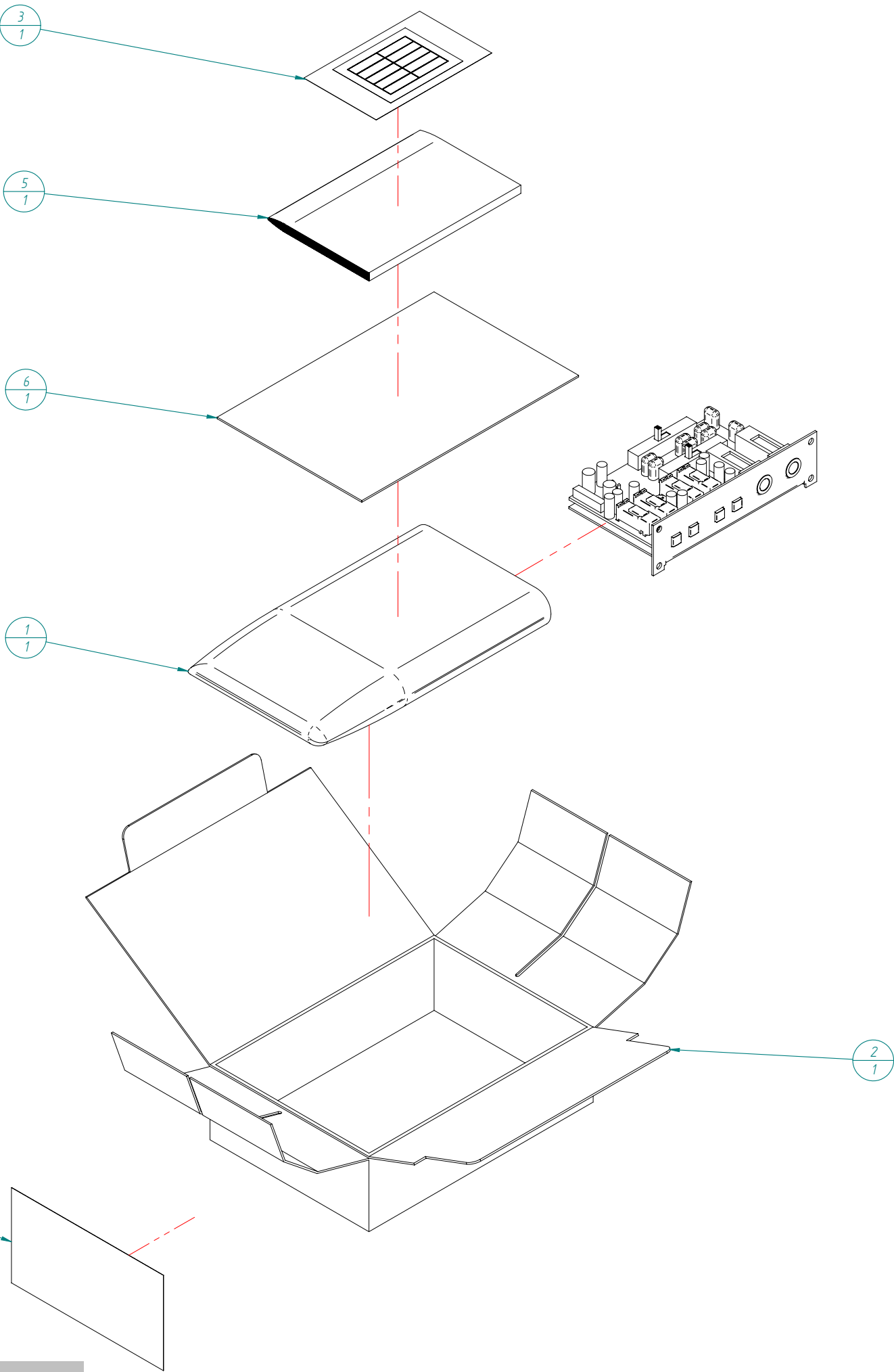
approved:

title:

PACKING DIAGRAM

number: **32.0100** version **01.02**

Nº	Qty	ECLER Code	Description
1	1	FCBOL0020000	PLASTIC BAG 120x180
2	1	FCCAJS30000	PACKING CARDBOARD BOX
3	1	FCETI0504000	STICKERS FOR INPUTS LABELLED
4	1	FCETI0951140	PRODUCT LABEL PACK (ONE FOR EACH UNIT)
5	1	FCMANUCM2000	USER MANUAL
6	1	FCTARJG00000	WARRANTY CARD



OLD VERSION



drawn: *Jordi Folch*

date: *040213*

project: *F01-03*

product: *UCM 20*

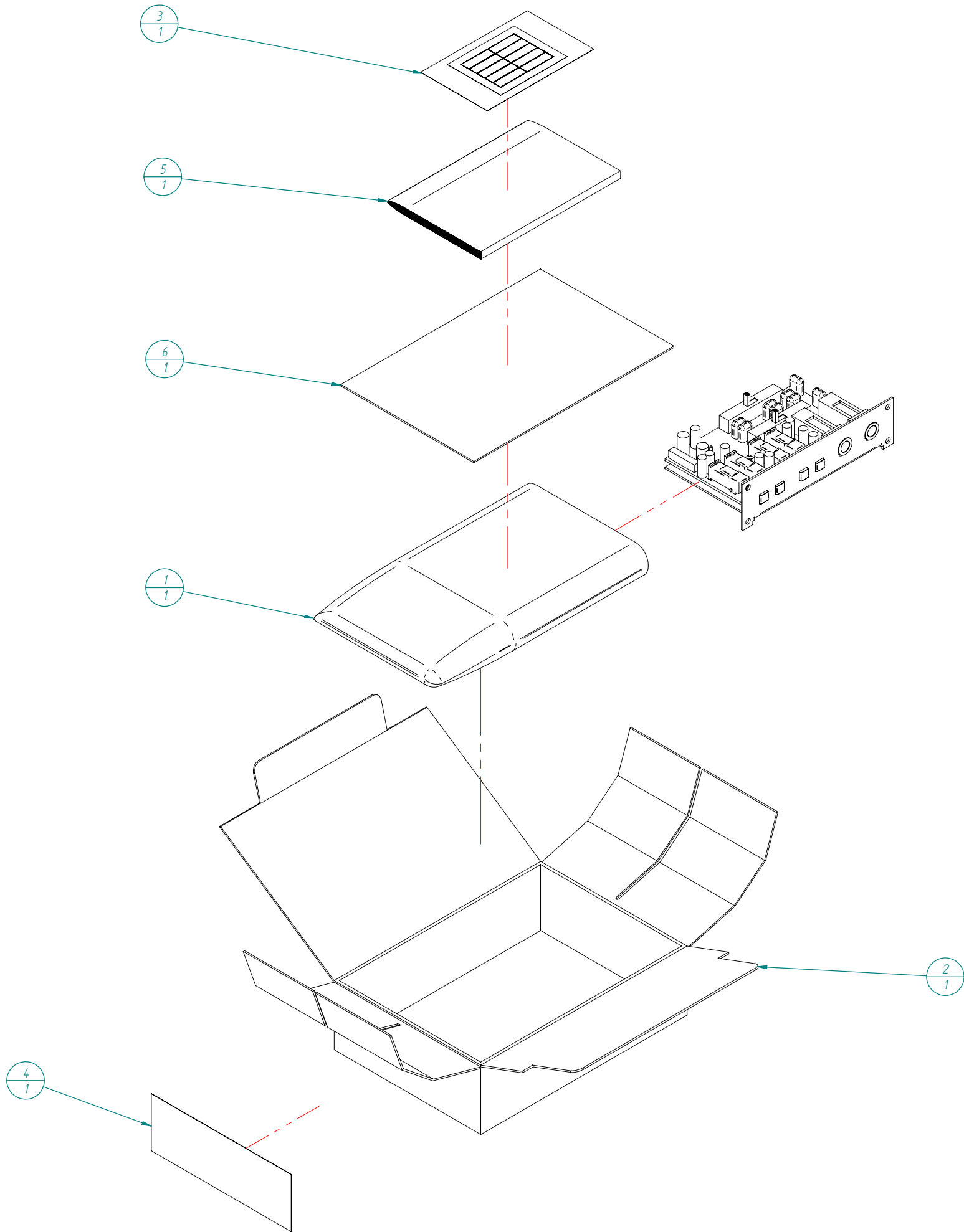
approved:

title:

PACKING DIAGRAM

number: *32.0100* version *01.01*

Nº	Qty	ECLER Code	Description
1	1	FCBOL0020000	PLASTIC BAG 120x180
2	1	FCCAJST30000	PACKING CARDBOARD BOX
3	1	FCETI0504000	STICKERS FOR LABEL
4	1	FCETICAJA100	STICKER 105x37
5	1	FCMANUCM2000	USER MANUAL
6	1	FCJARJG00000	WARRANTY CARD



OLD VERSION



drawn: *Jordi Folch*

date: *030318*

project: *F01-03*

product: *UCM 20*

approved:

title:

PACKING DIAGRAM

number: *32.0100* version *01.00*