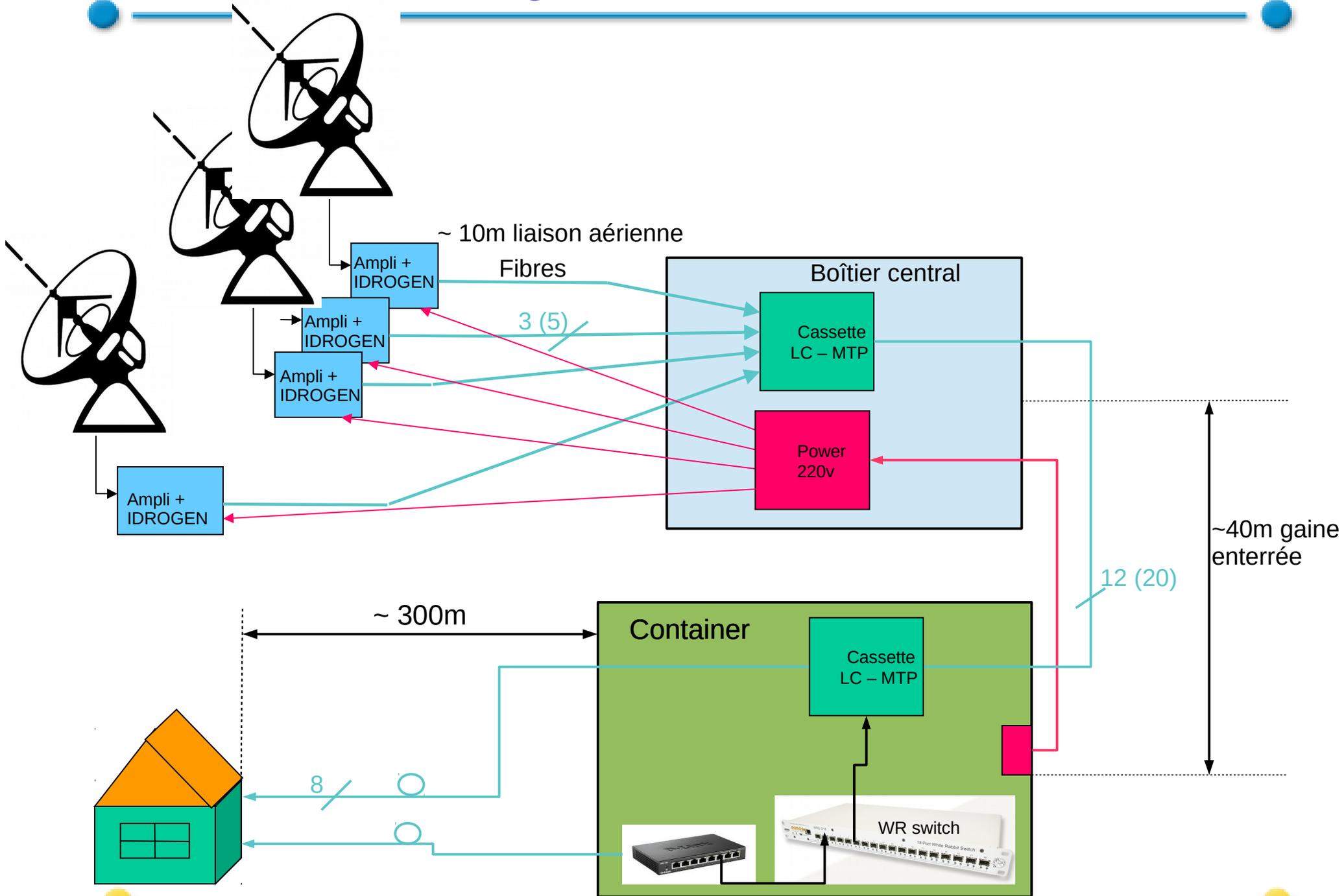


PAON4 : Configuration d'ensemble



LNA mini-circuit

Hide Filter -

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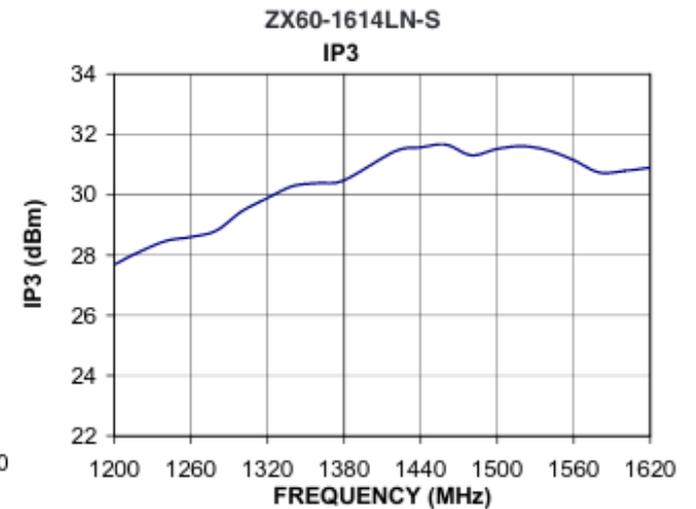
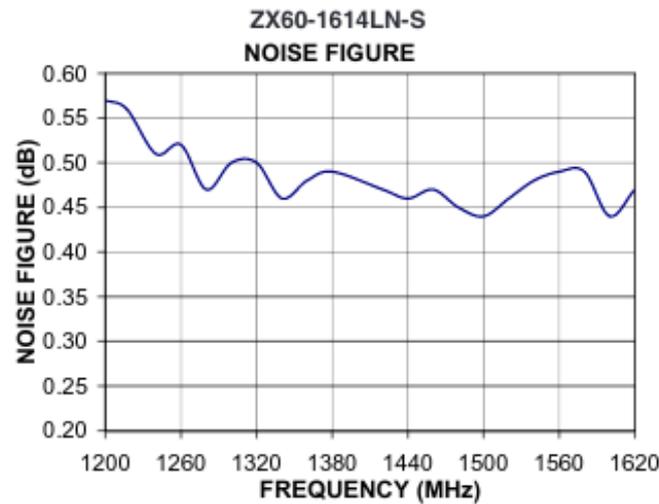
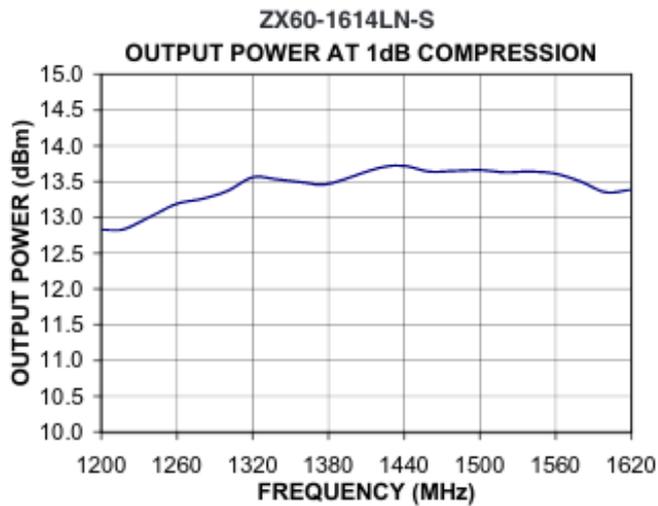
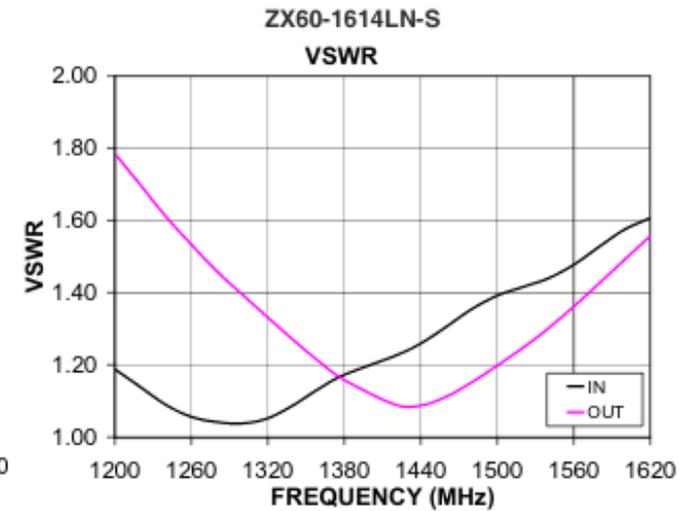
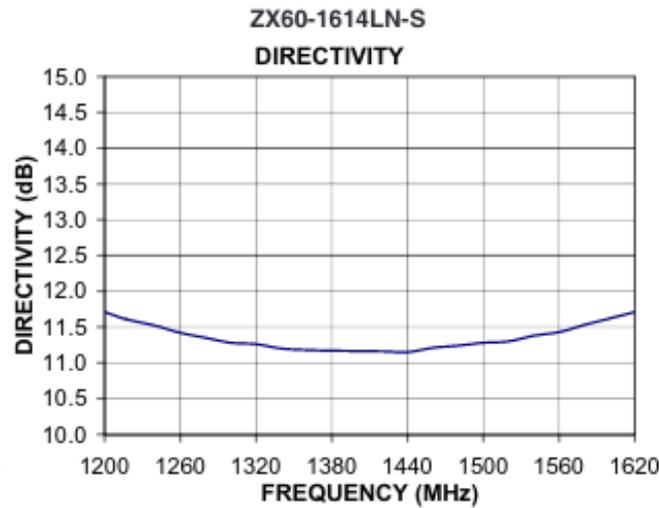
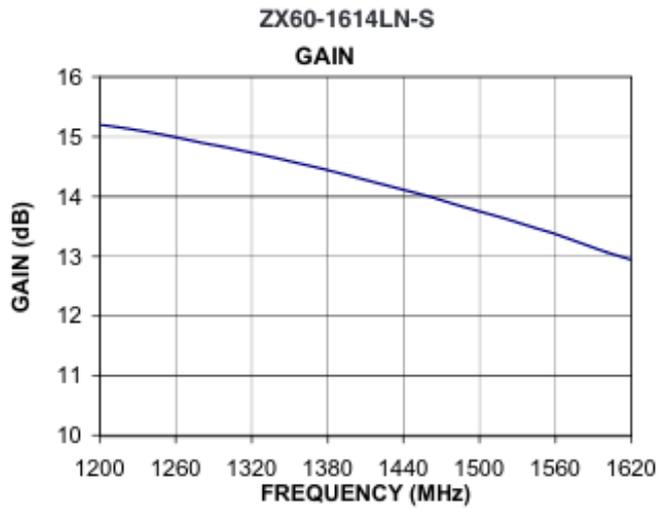
Export to Excel

Interface	Category		F Low (MHz)	F High (MHz)	Gain (dB) Typ.	NF (dB) Typ.	P1dB (dBm) Typ.	OIP3 (dBm) Typ.	Voltage (V)	Current (mA)	Connector Type	Options
<input type="checkbox"/> SMT <input type="checkbox"/> Die <input checked="" type="checkbox"/> Connector <input type="checkbox"/> Plug-in <input type="checkbox"/> Rack	<input checked="" type="checkbox"/> Low Noise Amplifiers (NF < 3 dB) <input type="checkbox"/> High Power Amplifiers (>2W) <input type="checkbox"/> Linear Amplifiers (IP3 > +40 dBm) <input type="checkbox"/> CATV Amplifiers (75Ω) <input type="checkbox"/> RF Transistors	<input checked="" type="checkbox"/> Gain Blocks <input type="checkbox"/> Variable Gain Amplifiers <input type="checkbox"/> Dual Matched Amplifiers <input type="checkbox"/> Pulse Amplifiers	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> 1	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>	≤ <input type="text"/>	<input type="checkbox"/> N <input type="checkbox"/> BNC <input type="checkbox"/> SMA <input type="checkbox"/> SMA-N <input type="checkbox"/> 2.92mm <input type="checkbox"/> 2.4mm	<input type="checkbox"/> Bracket <input type="checkbox"/> Heat Sink

Model Number	F Low (MHz)	F High (MHz)	Gain (dB) Typ.	NF (dB) Typ.	P1dB(dBm) Typ.	OIP3 (dBm) Typ.	Input VSWR (:1) Typ.	Output VSWR (:1) Typ.	Voltage (V)	Current (mA)	Case Style	Connector Type	Option
ZRL-1150LN+	650	1400	33	1	25	41	1.4	1.3	12	500	FJ893	SMA	-
ZRL-2400LN+	1000	2400	30	1	23	39	1.6	1.4	12	520	FJ893	SMA	-
ZX60-242GLN-S+	1710	2400	30	0.85	20	37	1.4	1.6	5	150	GA955	SMA	-
ZX60-242LN-S+	1710	2400	13	0.75	16.5	33	1.2	1.6	5	46	GA955	SMA	-
ZX60-272LN-S+	2300	2700	14	0.8	18.5	31.5	1.2	1.6	5	70	GA955	SMA	-
ZX60-362GLN-S+	3300	3600	20	0.9	16	29	1.2	1.4	5	140	GA955	SMA	-
ZX60-362LN-S+	3300	3600	11.5	0.9	10.5	22	1.4	1.4	5	30	GA955	SMA	-
ZX60-0916LN-S+	824	960	18	0.55	16.5	30	1.2	1.4	5	45	GA955	SMA	-
ZX60-1215LN-S+	800	1400	16	0.4	12.5	27	1.7	1.4	12	50	GA955	SMA	-
ZX60-1614LN-S	1217	1620	14	0.5	13.5	30	1.3	1.3	12	50	GA955	SMA	-
ZX60-3800LN-S+	3300	3800	23	0.9	18	36	1.2	1.4	5	110	GA955	SMA	-
ZX60-P33ULN+	400	3000	14.8	0.4	17.4	35	1.9	1.3	3	67	GC957	SMA	-
ZX60-P103LN+	50	3000	13	0.6	22.5	40	1.6	1.6	5	120	GC957	SMA	-
ZX60-P162LN+	700	1600	22.5	0.5	19.9	29.9	1.2	1.4	4	60	GC957	SMA	-

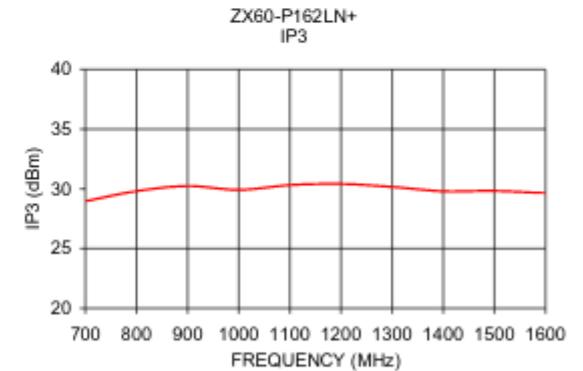
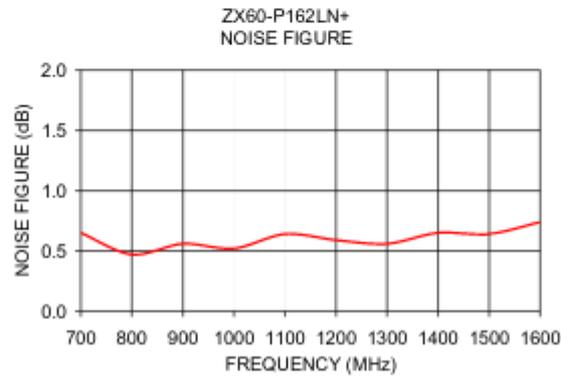
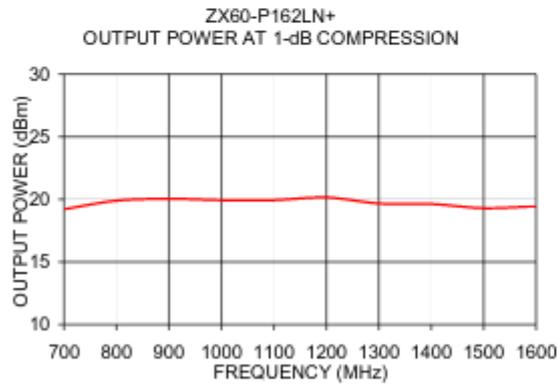
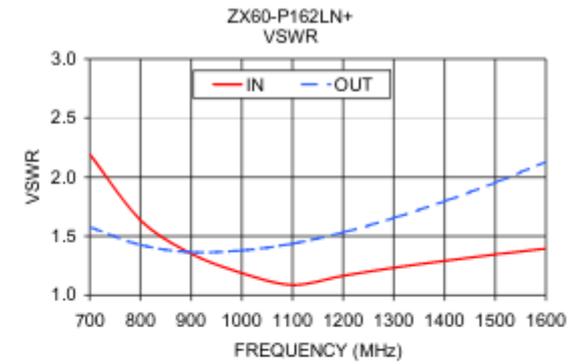
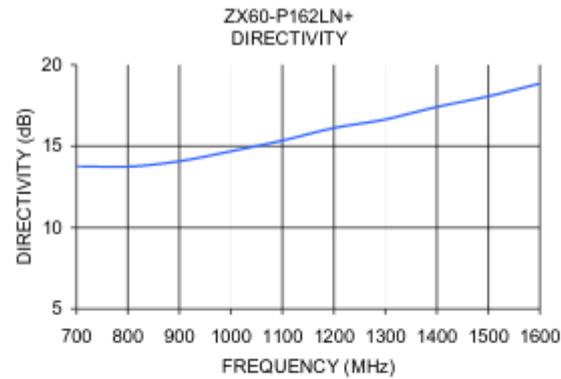
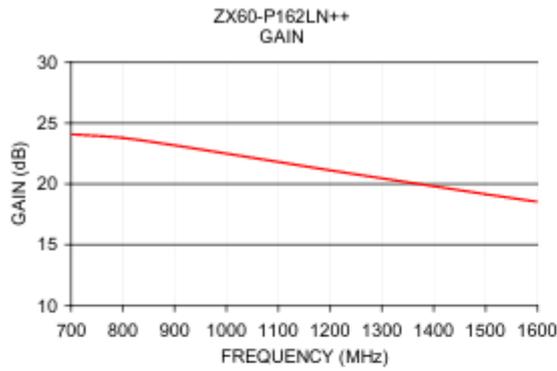
ZX60-1614LN

~160 \$ not recommended for new design...



Notes

ZX60-162LN 80\$

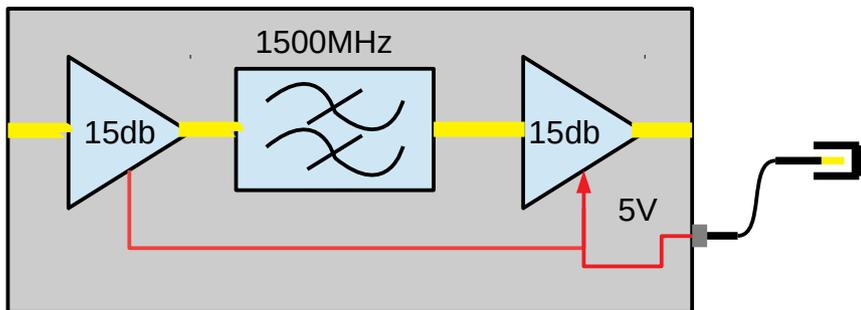


Analogique 1: LNA modification



MGA633-P8

LNA version 2



Boîtier à remplacer :

- Alimentation par perle de fêrite
- remplacer SMA par semi rigide
- Connecteur sur cable IP68 et embase et droit

Cable alimentation 10 m / voie
câble RG142 de

10 metres 2/voie
SMA RG142 2 /voie

Alimentation linéaire , récupération actuelle

Binder : Connecteur 3 contacts, série 720,

Montage sur câble, raccordement A souder

RS 734-5518 Ref fab :99-9106-60-03 9,71eu

Binder : Connecteur 3 contacts, série 720,

Montage sur câble, raccordement A souder

RS 734-5464 Ref fab : 99-9105-60-03

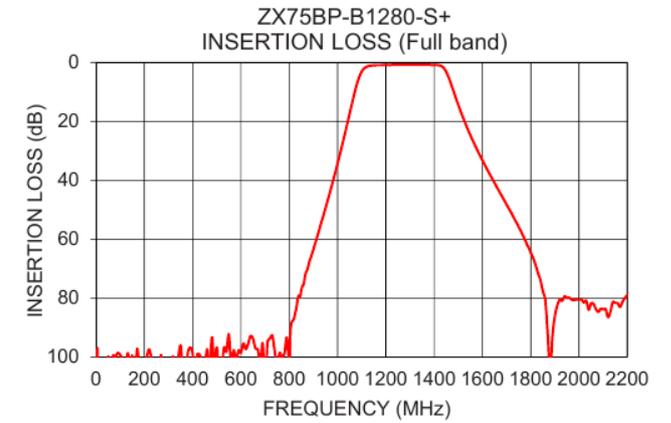
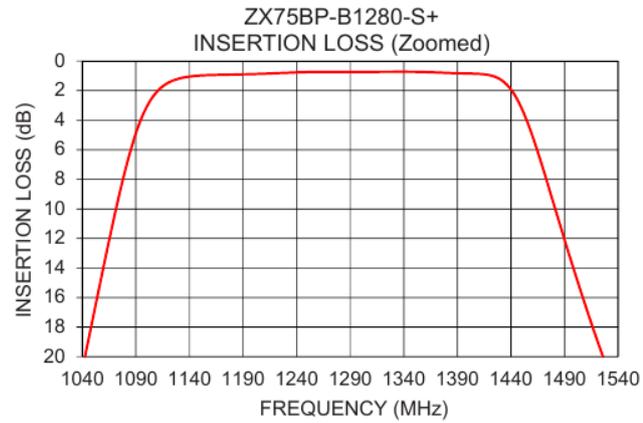
5,74eu

Reprise Coaxial Nancay
semi rigide Nancay ?

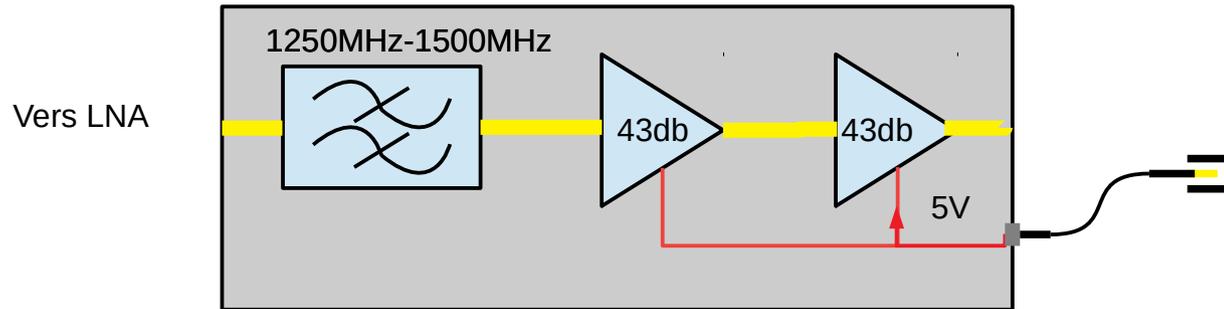


Filtre passe bande

ZX75BP-B1280-S+
F1-F2 1160 – 1400
Connecteur sma 70\$



Amplificateur mini-circuit "low_noise"

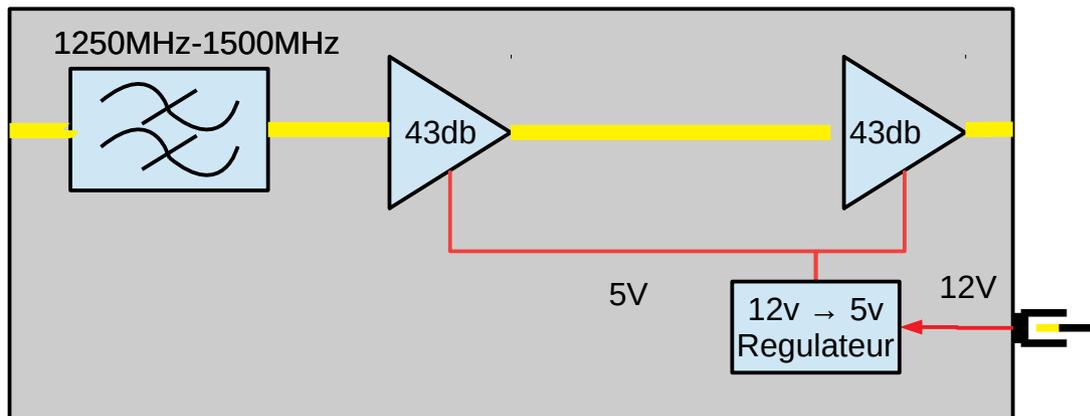


dBm	v	w
22	2.82	158
21	2.51	126
20	2.24	100
19	1.99	79
18	1.78	63
17	1.58	50

	Gain 1250Mhz	Band	tension	Power mA	Output Power 1db (dBm)	NF 1250Mhz	Prix \$
ZX60-2534MA+	29dB	1200-1700	15	380	22	1.5	295
ZFL-2500+	32.5dB	500-2500	6v	220	15	8	105
ZX60-2522MA-S+	25dB	550-2500	5v	110	20	2.6	70
ZX60-2534MA+	43dB	500-2500	5v	200	19	2.2	57
ZRL-2150+	25dB	950-2150	12v	300	22	1,3	110
ZRL-2400LN+	30dB	1000-2400	12v	500	24	1.5	130

Amplificateur intermédiaire

Amplificateur intermediaire



Boîtier 1 /voie

Ampli mini-circuit : ZX60-2534MA+

Filtre : ZX75BP-B1280-S+

connecteur EP68

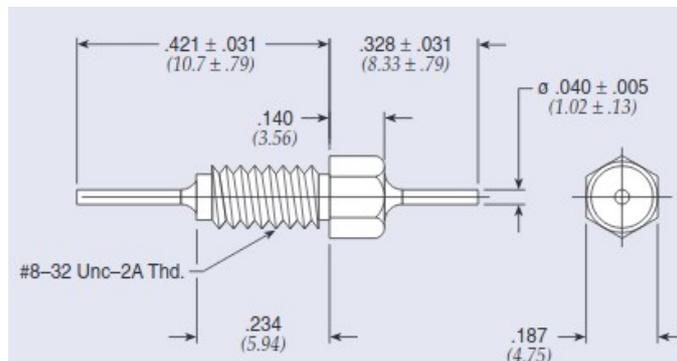
Alimentation par perle de ferrite

Alimentation ver. 2: module commun IDROGEN +
régulateur interne

LNA alimentation linéaire

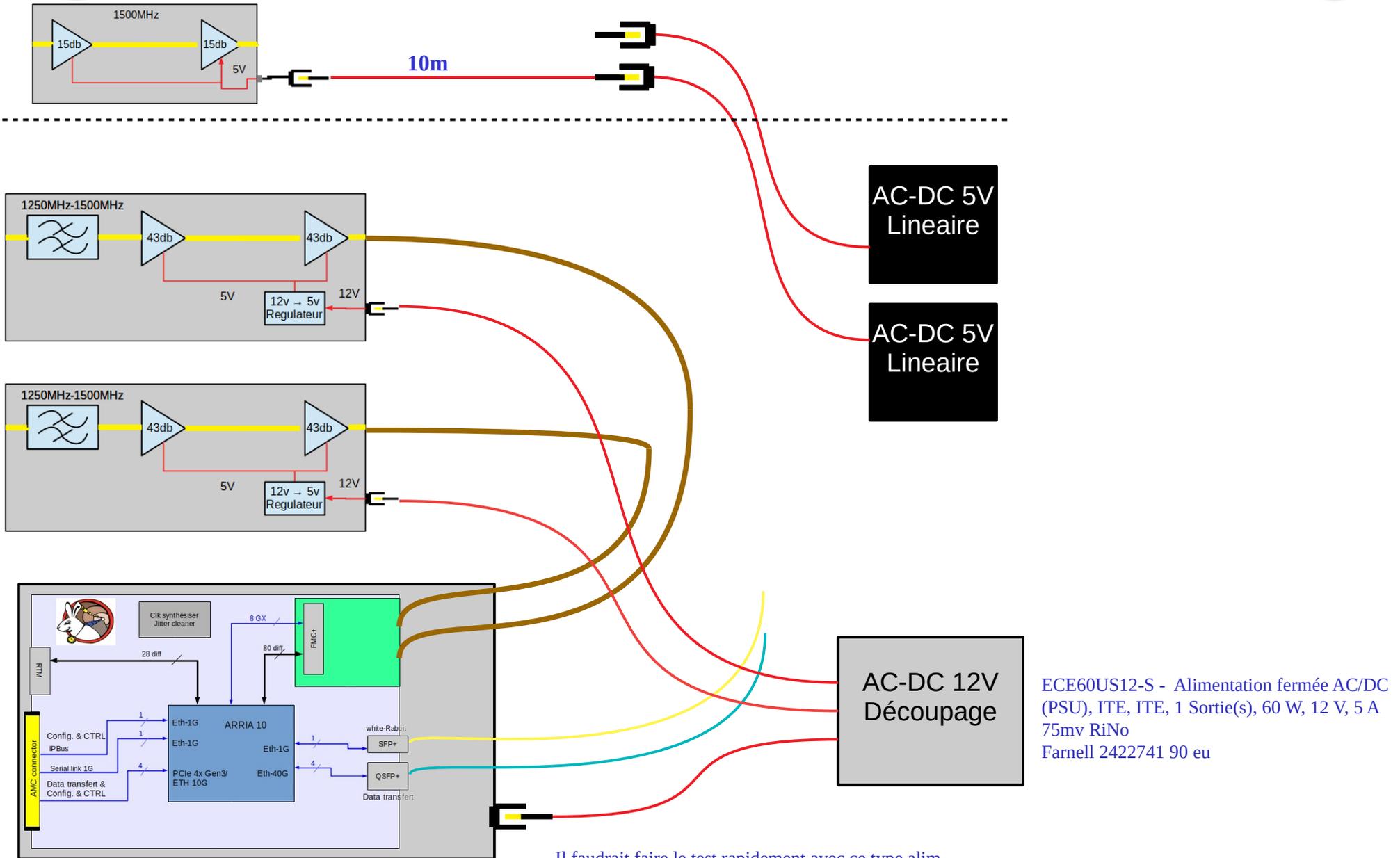
Alimentation ver. "backup": Alimentation linéaire
récupération actuelle 2/ voie

Régulateur linéaire L78 + capa



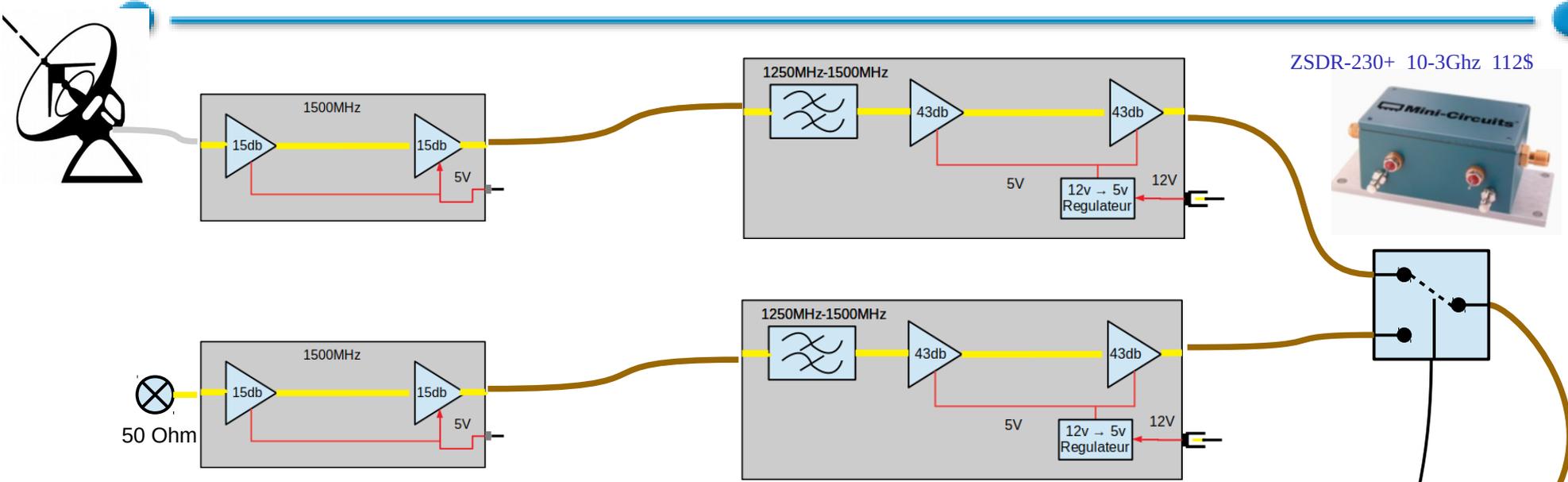
API technologies : 54F-785-005

Cablage coffret antenne

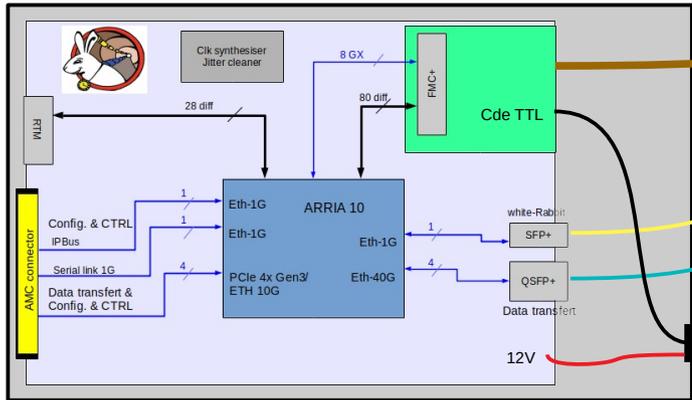


Il faudrait faire le test rapidement avec ce type alim.
Peut être reste il des blocs alimentation au laboratoire

Voie thermomètre



Remplacement du DS90LV011 pour un 012



Avantages :

- 4 modules IDROGEN au lieu de 5
- Simplification câblage (fibre en particulier)

Désavantages :

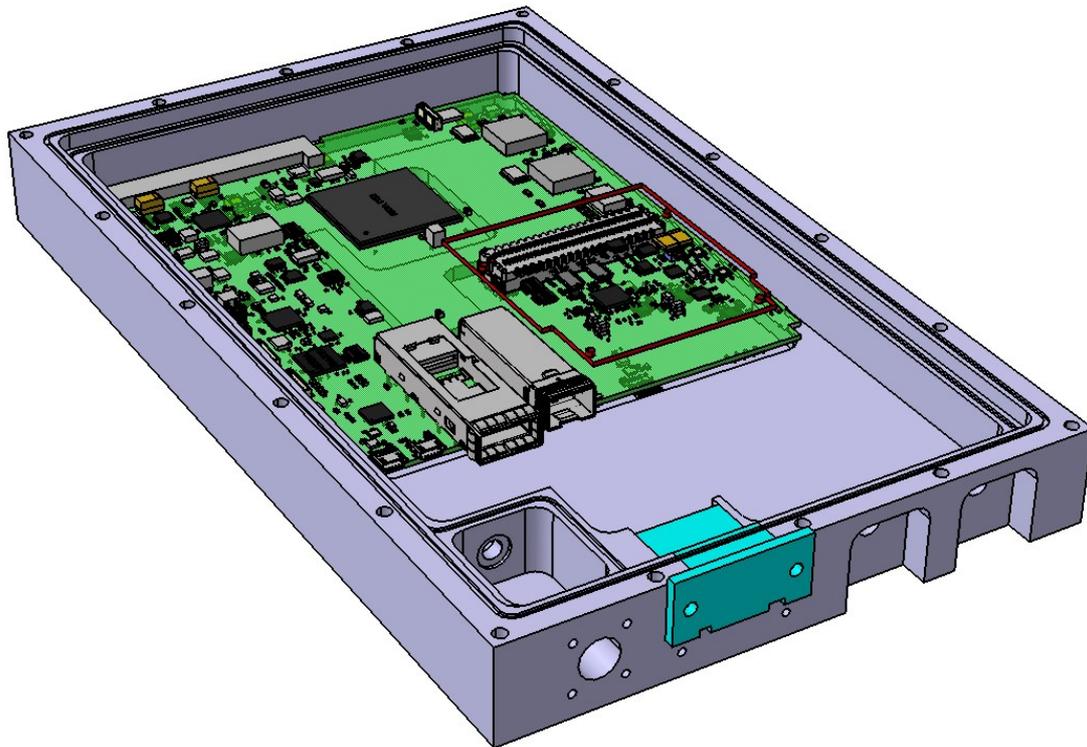
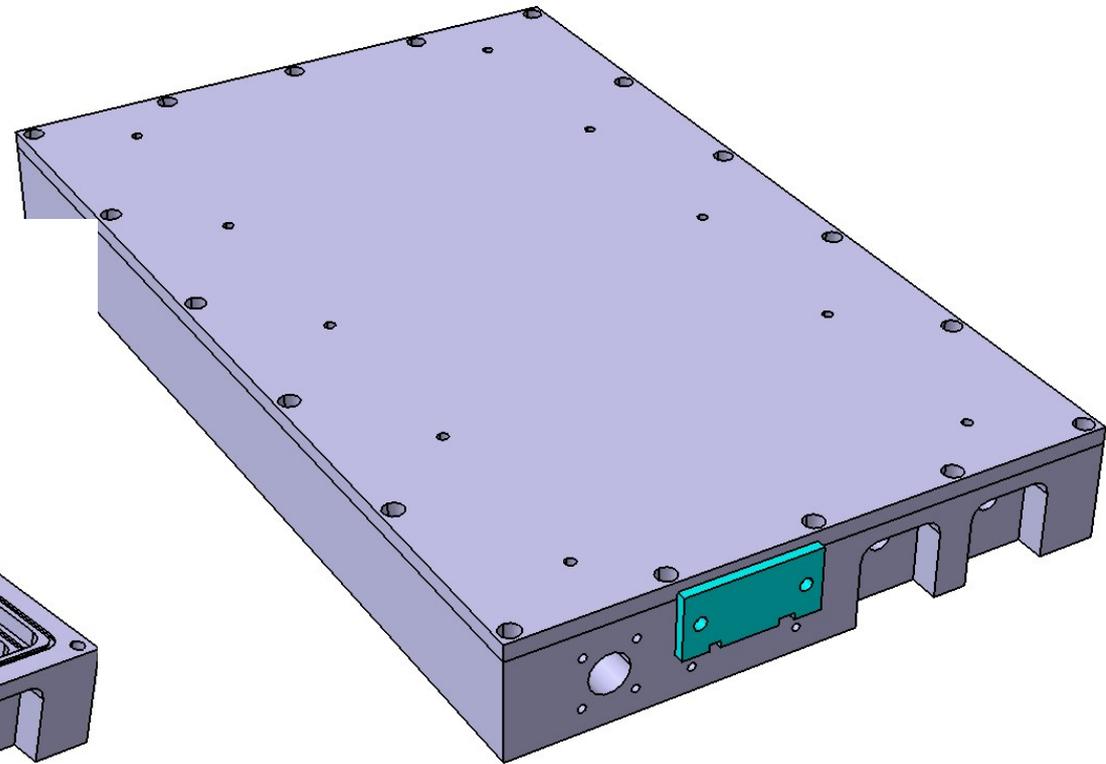
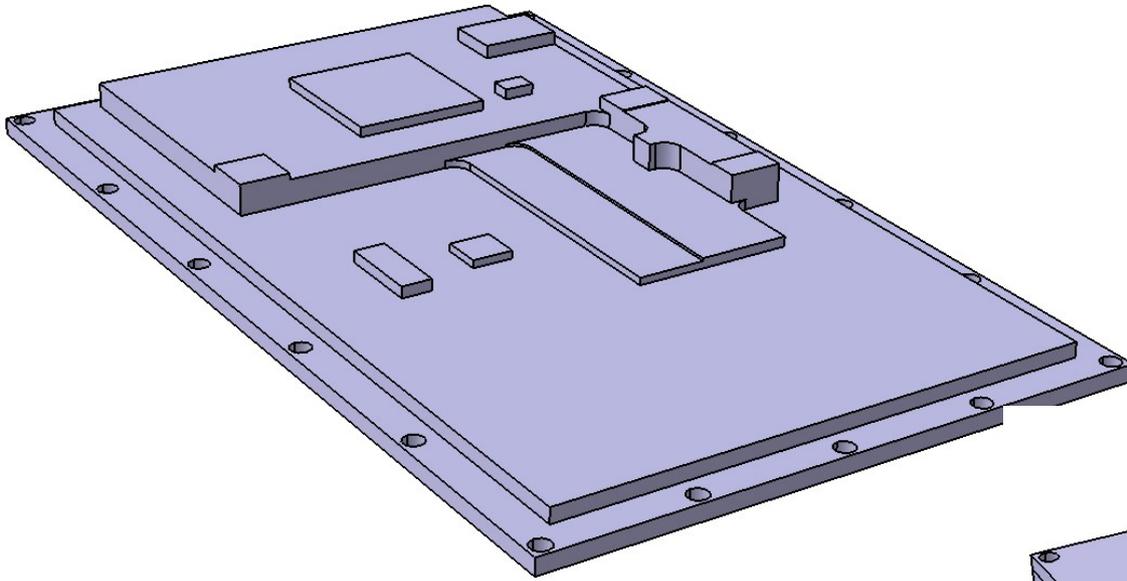
- Modification software un peu plus complexe
- ajout fonction firmware



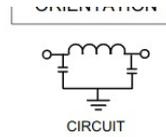
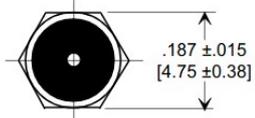
Mécanique



Boitier



Mécanique : composants pour boîtier



Tusonix : filtre de traversé

Ref fab :4251-002LF

Mouser 800-4251-002LF

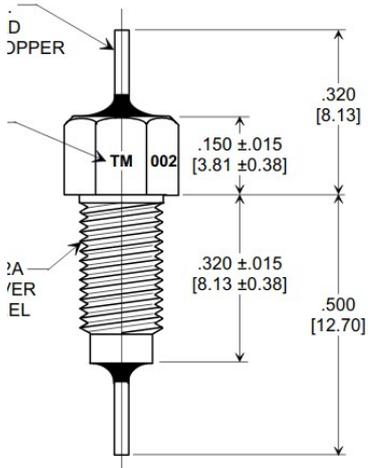
21,6eu



Feuille interface thermique Bergquist

RS 127-079

ref fab: GP1500-0.100-02-0804



Souriau ref fab :UTS08E3P

Farnell 1795902 11eu



MTC Ruban de blindage en Alliage cuivreux nickelé, PUR,

Ruban, 1m x 3.8mm x 1.5mm

RS 783-8837 ref fab: DHR3,8x1,5NI-N2V0-1000

UTS Series Connector

8E2/8D2 (Shell size 8, 2x#20)

Souriau ref fab : UTS6JC8E3S

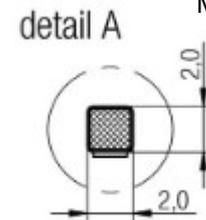
Farnell 1795868 13eu



Code commande RS773-7131

Référence fabricant 3020202

Marque [Würth Elektronik](#)



Connector Part Numbers

Commandes analogic

reference	Fabricant	fournisseurs	Prix/un	nb	Status
Eval-FMCDQA3-EBZ	Analog_devices	Mouser	1495\$	1	Demande faite à Roxane pas de retour
ZX60-2534MA+	mini-circuit			4	Demande faite à Roxane
ZX75BP-B1280-S+	mini-circuit			2	Demande faite à Roxane
VLF-1450+	mini-circuit			2	Demande faite à Roxane
4251-002LF	Tusonix	Mouser 800-4251-002LF	21\$	6	
boitier					
Connecteur RG142					
Connecteur alimentation					