

# ANDERS' FREQUENCY DISTRIBUTION AMPLIFIER

## 2017.03 BOM

### REV 2017.03

DATE	COMPANY	COMMENT 1	COMMENT 2
2017-01-28	Anders Wallin (anders.e.e.wallin "at" gmail.com)	2017.01 design, 4pcs prototype- boards Jan 2017	measured <-162 dBc/Hz phase- noise at 10 MHz
COMMENT 3	COMMENT 4	TOTAL PARTS	
reverse isolation 120 dB, channel- to-channel isolation 80dB	1dB compression @ 14.8 dBm, IP3 @ 31 dBm (10 MHz)	222 (Unique 37)	

Ref	Qty	Value	Footprint	Datasheet	Digikey	Farnell	PN
[C] - Capacitors							
C101	1	1n	Capacitors_SMD:C_0805				
C102 C103 C202 C203 C302 C303 C402 C403 C502 C503 C602 C603 C702 C703 C802 C803 C1002 C1003	18	100n	Capacitors_SMD:C_0805				
C104 C105 C204 C205 C304 C305 C404 C405 C504 C505 C604 C605 C704 C705 C804 C805 C901 C902 C903 C904 C905 C906 C907 C908 C1004 C1005	26	10u	Capacitors_SMD:C_0805				
C106	1	100p	Capacitors_SMD:C_0805				
C201 C206 C301 C306 C401 C406 C501 C506 C601 C606 C701 C706 C801 C806 C1001 C1006	16	DNI	Capacitors_SMD:C_0805				
C911	1	10n	Capacitors_SMD:C_0805				
C912 C913	2	47u	Capacitors_SMD:C_0805				
[D] - Diodes							
D901	1	D	Diodes_SMD:DO- 214BA			9555986	
D902	1	D	Diodes_SMD:DO- 214BA				
D903 D904	2	LED	LEDs:LED_0805				
[F] - Fuse							
F901	1	BNX025_FILTER	awallinKiCadFootprints:FILTER_BNX025			2494142	
F902	1	BNX025_FILTER	awallinKiCadFootprints:FILTER_BNX025				
[J] -							
J101	1	CONN_COAXIAL	awallinKiCadFootprints:BNC_2PIN				
J102	1	CONN_COAXIAL	Connect:SMB_Straight				
J201 J301 J401 J501 J601 J701 J801 J1001	8	CONN_COAXIAL_SMA	awallinKiCadFootprints:BNC_2PIN			2293854	

J202 J302 J402 J502 J602 J702 J802 J1002	8	CONN_COAXIAL_BNC	Connect:SMB_Straight	1076295
J901 J902	2	TEST_2P	Measurement_Points:Test_Point_2Pads	
J903 J904	2	HEATSINK	awallinKiCadFootprints:Heatsink_Fisher_TO263	

## [L] - Inductors

L101 L102 L201 L202 L301 L302 L401 L402 L501 L502 L601 L602 L701 L702 L801 L802 L901 L902 L903 L904 L905 L906 L1001 L1002	24	L	Resistors_SMD:R_0805
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## [P] - Connectors

P112 P113 P114 P115	4	CONN_01X01	Mounting_Holes:MountingHole_3mm_Pad_Via
P901	1	CONN_01X03	Connect:bornier3

## [R] - Resistors

R101 R206 R306 R406 R506 R606 R706 R806 R1006	9	51R	Resistors_SMD:R_0805
R102 R104 R105 R109 R207 R208 R307 R308 R407 R408 R507 R508 R607 R608 R707 R708 R807 R808 R1007 R1008	20	10R	Resistors_SMD:R_0805
R103	1	2k	Resistors_SMD:R_0805
R106 R203 R204 R303 R304 R403 R404 R503 R504 R603 R604 R703 R704 R803 R804 R1003 R1004	17	200R	Resistors_SMD:R_0805
R107	1	190R	Resistors_SMD:R_0805
R108 R205 R209 R305 R309 R405 R409 R505 R509 R605 R609 R705 R709 R805 R809 R1005 R1009	17	DNI	Resistors_SMD:R_0805
R201 R202 R301 R302 R401 R402 R501 R502 R601 R602 R701 R702 R801 R802 R1001 R1002	16	1k	Resistors_SMD:R_0805
R901 R903	2	2k7	Resistors_SMD:R_0805
R902 R904	2	680R	Resistors_SMD:R_0805
R905 R906	2	220R	Resistors_SMD:R_0805

## [T] -

T901	1	CM-CHOKE	awallinKiCadFootprints:CM-CHOKE	9621261	TDK ZJYS51F01
T902	1	CM-CHOKE	awallinKiCadFootprints:CM-CHOKE		

## [U] - Semiconductors

U1	1	LT1963A	TO_SOT_Packages_SMD:TO-263-5Lead	1273625
U2	1	LT3015	TO_SOT_Packages_SMD:TO-263-5Lead	2068045
U101	1	LMH6702	Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm	LMH6702MA/NOPB-ND
U201 U301 U401 U501 U601 U701 U801 U1001	8	LMH6609	Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm	LMH6609MA/NOPB-ND