Carier Input — Carier Input
SMA-J-P-H-ST-EM1
GND
C5 0.1u

12V
R5 51
R3 1.3k
12V
R4 10k

12V 12V
R2 3k R1 3k

U1
5 BIAS OUT 6
10 CARRIER_IN OUT 12
2 GAIN_ADJ
3 GAIN_ADJ_2
8 IN_CARRIER
4 SIG_IN
1 SIG_IN_2
7 N/C
9 N/C
11 N/C
13 N/C
14 VEE
MC1496DR2G

CIN
R6
R7 1k
R9 820
GND
R10 100 R11 100

C3 0.1u
Output — Output
SMA-J-P-H-ST-EM1
GND

C4 UWT1H221MNL1GS
12V
C6 0.1u
C5 GRM21BR61C106KE15K 10u 16V
GND

12V
R8 330
D1 0603-LED-BLUE
GND

VR1 3266W-1-503LF
GND
R12 10k
R13 10k

C8 0.1u
GND
C9 15u
GND
C7 15u
GND

C15 GRM21BR61C106KE15K 10u 16V
GND

PWR
1 2 3
A
GND
12V

CH1
3 2 1
LHWR
12V
GND

Signal Input — Input
SMA-J-P-H-ST-EM1
GND
C10 GRM21BR61C106KE15K 10u 16V

C16 GRM21BR61C106KE15K 10u 16V
GND

24V
R14 100k
C17 220u UWT1H221MNL1GS
GND
C13 0.1u
GND
D2

2200u

Output
C12 2.2u
1 5
2 U2 TDA2030 4
GND
R15 100k
GND

Output2
C18 EEE-FK1E272SM
Output2
SMA-J-P-H-ST-EM1
GND

PWR1
1 2 3
A
GND
24V

CH2
3 2 1
LHWR
24V
GND

C19 EEE-FK1E330UR 22u
GND
R18 100k
GND

C14 2.2u
R17 50k
VR2 3266W-1-503LF
D3
R19 4.7k
GND
GND

R16 1
GND
C11 0.1u
GND

Designator	Quantity	MF	MP	Value	Package	Description	Instructions	Type	HelpURL	ChipDip_Link	Name
C1, C2, C8, C11, C14	5	AVX	GX035C104MAT2-500	0.1u	0603 AVX	Cap Thin Film 0.1uf 50v 0603		SMD			GX035C104 MAT2-500
C3, C6	2	AVX	GX035C104MAT2-500 or CL10B104JB8NNNC	0.1u	0603 AVX	Cap Thin Film 0.1uf 50v 0603		SMD			GX035C104 MAT2-500
C4, C17	2	{'manufacturer': u'Nichicon'}	UWT1H221MNL1GS		None	220µF 50V Aluminum Electrolytic Capacitors Radial, Can - SMD 5000 Hrs @ 105В°C					UWT1H221 MNL1GS
C5, C10, C15, C16	4	{'manufacturer': u'Murata'}	GRM21BR61C106KE15K	10u 16V	None						GRM21BR61 C106KE15K
C7, C9	2	Murata Electronics	GRM31CR61A476KE15L	15u	1206 Murata Electronics	Multilayer Ceramic Capacitor, GRM Series, 47 - F, - 10%, X5R, 10 V, 1206 [3216 Metric]		SMD			GRM31CR61 A476KE15L
C12, C13	2	Murata Electronics	GRM31CR71H225KA88L	2.2u	1206 Murata	1206 2.2 uF 50 V B±10% Tolerance X7R SMT Multilayer Ceramic Capacitor		SMD			GRM31CR71 H225KA88L
C18	1	{'manufacturer': u'Panasonic Electronic Components'}	EEE-FK1E272SM		None	CAP ALUM 2700UF 20% 25V SMD					EEE-FK1E272SM
C19	1	{'manufacturer': u'Panasonic Electronic'}	EEE-FK1E330UR		None						EEE-FK1E330UR
Carier Input, Output, Output2, Signal Input	4	Samtec	SMA-J-P-H-ST-EM1		None	SMA Connector Jack, Female Socket 50Ohm Board Edge, End Launch Solder					SMA-J-P-H-ST-EM1
CH1, CH2	2										LHWR
D1	1		0603-LED-BLUE		0603 Lite-On	LED IrLED Chip LED 2-Pin SMD T/R		SMD			0603-LED-BLUE
D2, D3	2	Littelfuse Inc.	SK56		DO-214 Littelfuse	Диод Шоттки 5A 60В [SMB / DO-214AA]		SMD		https://www.ch ipdip.ru/produc t/sk56	SK56
PWR, PWR1	2	Connfly electronic (Zhenqin)	PLS-3 (DS1021-1x3)			Header, 4-Pin		SMD	https://stat ic.chipdip.r u/lib/227/D OC00022715 7.pdf	https://www.ch ipdip.ru/produc t/pls-3	A
R1, R2	2		RC0603FR-07330RL	3k	R0603	Resistor		SMD	https://ww w.chipdip.r u/product0 /900007962 8	https://www.ch ipdip.ru/produc t0/9000079628	Res3
R3	1		RC0603FR-07330RL	1.3k	R0603	Resistor		SMD	https://ww w.chipdip.r u/product0 /900007962 8	https://www.ch ipdip.ru/produc t0/9000079628	Res3
R4, R12, R13	3	Yageo or NXP	10K 1% 0603	10k	R0603	10 kOhms 1 0.1 W 1 10 W Chip Resistor 0603 1608 Metric Thick Film		SMD	https://ww w.chipdip.r u/product0 /900007973 6	https://www.ch ipdip.ru/produc t0/9000079736	RC0603FR-0710KL
R5	1		RC0603FR-07330RL	51	R0603	Resistor		SMD	https://ww w.chipdip.r u/product0 /900007962 8	https://www.ch ipdip.ru/produc t0/9000079628	Res3
R6, R7	2		RC0603FR-07330RL	1k	R0603	Resistor		SMD	https://ww w.chipdip.r u/product0 /900007962 8	https://www.ch ipdip.ru/produc t0/9000079628	Res3
R8	1		RC0603FR-07330RL	330	R0603	Resistor		SMD	https://ww w.chipdip.r u/product0 /900007962 8	https://www.ch ipdip.ru/produc t0/9000079628	Res3
R9	1		RC0603FR-07330RL	820	R0603	Resistor		SMD	https://ww w.chipdip.r u/product0 /900007962 8	https://www.ch ipdip.ru/produc t0/9000079628	Res3
R10, R11	2		RC0603FR-07330RL	100	R0603	Resistor		SMD	https://ww w.chipdip.r u/product0 /900007962 8	https://www.ch ipdip.ru/produc t0/9000079628	Res3
R14, R15, R18	3	Yageo or NXP	10K 1% 0603	100k	R0603	10 kOhms 1 0.1 W 1 10 W Chip Resistor 0603 1608 Metric Thick Film		SMD	https://ww w.chipdip.r u/product0 /900007973 6	https://www.ch ipdip.ru/produc t0/9000079736	RC0603FR-0710KL
R16	1	Yageo or NXP	10K 1% 0603	1	R0603	10 kOhms 1 0.1 W 1 10 W Chip Resistor 0603 1608 Metric Thick Film		SMD	https://ww w.chipdip.r u/product0 /900007973 6	https://www.ch ipdip.ru/produc t0/9000079736	RC0603FR-0710KL
R17	1	Yageo or NXP	10K 1% 0603	50k	R0603	10 kOhms 1 0.1 W 1 10 W Chip Resistor 0603 1608 Metric Thick Film		SMD	https://ww w.chipdip.r u/product0 /900007973 6	https://www.ch ipdip.ru/produc t0/9000079736	RC0603FR-0710KL
R19	1	Yageo or NXP	10K 1% 0603	4.7k	R0603	10 kOhms 1 0.1 W 1 10 W Chip Resistor 0603 1608 Metric Thick Film		SMD	https://ww w.chipdip.r u/product0 /900007973 6	https://www.ch ipdip.ru/produc t0/9000079736	RC0603FR-0710KL
U1	1	{'manufacturer': u'ON Semiconductor'}	MC1496DR2G		None						MC1496DR2 G
U2	1	{'manufacturer': u'STMicroelectroni cs'}	TDA2030		None	14 W hi-fi audio amplifier					TDA2030
VR1, VR2	2	{'manufacturer': u'Bourns'}	3266W-1-503LF		None	Res Cermet Trimmer 1K Ohm 10% 1/4W 12(Elec)Turn 1.78mm (6.71 X 4.5 X 8.26mm) Pin Thru-Hole Tube					3266W-1-503LF