

Hycas-1 / Hydrid Cascode AGC IF Amplifier

Ref	Qty	Value	Vendor	Part No.
C2	1	65pF trimmer (GKGxx015_Series)	Digikey	2447-GKG60015-ND
C3, C4, C5, C7, C10, C11, C15	7	0.01uF (0.20" pin spacing)	Digikey	399-9865-1-ND
C6, C8, C9, C12, C13, C14, C19, C20, C21, C22	10	0.1uF (0.20" pin spacing)	Digikey	399-13932-ND
C16	1	4.7uF 16V (radial leads, 0.078 pin spacing)	Digikey	399-ESK475M016AC3AA-ND
C17, C18	2	0.22uF (0.20" pin spacing)	Digikey	399-13990-1-ND
D1, D2, D3, D4, D5, D6, D7, D8, D9	9	1N4148 (DO-35)	Digikey	1N4148FS-ND
J3, J4, J5	3	Header, male, 1x2 (0.10" pin spacing)	Digikey	S1012EC-40-ND
J6, J7	2	Header, male, 1x3 (0.10" pin spacing)	Digikey	S1012EC-40-ND
L1	1	6.8uH	Digikey	DN7691-ND
L2, L3, L4	3	120uH	Digikey	78F121J-RC-ND
Q1, Q3, Q5, Q10, Q11, Q12	6	2N3904 (TO-92 straight leads)	Digikey	2N3904FS-ND
Q2, Q4, Q6	3	J310 SMD (pre-installed)		
Q7, Q8, Q9	3	2N3906 (TO-92 straight leads)	Digikey	2N3906FS-ND
R1, R35	2	1K Ω 1/4W	Digikey	13-CFR-25JR-52-1KCT-ND
R2, R25, R33	3	2.2K Ω 1/4W	Digikey	13-CFR-25JR-52-2K2CT-ND
R3	1	51 Ω 1/4W	Digikey	13-CFR-25JR-52-51RCT-ND

R4, R5	2	[Not normally fitted—see Hayward/Damm article text]		
R6	1	270Ω 1/4W	Digikey	13-CFR-25JR-52-270RCT-ND
R7, R15	2	3.0KΩ 1/4W	Digikey	13-CFR-25JR-52-3KCT-ND
R8, R12, R17, R34	4	220Ω 1/4W	Digikey	13-CFR-25JR-52-220RCT-ND
R9, R13, R14, R20	4	180Ω 1/4W	Digikey	13-CFR-25JR-52-180RCT-ND
R10, R11, R16	3	100Ω 1/4W	Digikey	13-CFR-25JR-52-100RCT-ND
R18	1	4.7K 1/4W	Digikey	13-CFR-25JR-52-4K7CT-ND
R19, R28, R29, R30, R31, R37	6	10KΩ 1/4W	Digikey	13-CFR-25JR-52-10KCT-ND
R21, R22	2	680Ω 1/4W	Digikey	13-CFR-25JR-52-680RCT-ND
R23	1	47KΩ 1/4W	Digikey	13-CFR-25JR-52-47KCT-ND
R24	1	100KΩ 1/4W	Digikey	13-CFR-25JR-52-100K2CT-ND
R26, R27	2	1.5MΩ 1/4W	Digikey	13-CFR-25JR-52-1M5CT-ND
R36	1	330Ω 1/4W	Digikey	13-CFR-25JR-52-330RCT-ND
R38	1	18Ω 1/4W	Digikey	13-CFR-25JR-52-18RCT-ND
T1	1	Conventional Transformer, hand-wound on FT37-43 toroid core	kitsand parts.com	Item 530
U1	1	LM317L TO92 inline leads	Digikey	497-1573-5-ND
Magnet Wire		#28 magnet wire for T1	kitsand parts.com	Item 326
Printed-Circuit Board	1		MDRF	