

Bill of Materials for CGS506 - MCSM Component Kit V0.2
Channel 1 [CGS506 - MCSM Component Kit]

Item	Description	Qty	Designator	Package
CAPACITOR				
1	100nF Ceramic	2	C201, C202	RAD-0.2N
CONNECTOR				
2	8-pin IC Socket 0.3inch	3	Q101, Q102, Q103	DIP-8
3	14-pin IC Socket 0.3inch	1	U101	DIP-14
4	1x8 Pin Receptacle	1	X1	2212S
5	1x4 Pin RA Header	1	X2	-
6	1x4 Pin Receptacle	1	X2	2212S
7	1x8 Pin RA Header	1	X1	-
DIODE				
8	1N4148	1	D101	DIODE-0.3
LINEAR				
9	LM3900 - Quad Norton Amplifier	1	U101	DIP-14
RESISTOR				
10	5K11 1% 0.5W Metal Film	4	R110, R112, R116, R118	AXIAL-0.4
11	16K2 1% 0.5W Metal Film	1	R123	AXIAL-0.4
12	33K 1% 0.5W Metal Film	1	R124	AXIAL-0.4
13	37K4 1% 0.5W Metal Film	2	R107, R113	AXIAL-0.4
14	57K6 1% 0.5W Metal Film	2	R109, R115	AXIAL-0.4
15	63K4 1% 0.5W Metal Film	1	R108	AXIAL-0.4
16	200K 1% 0.5W Metal Film	2	R119, R121	AXIAL-0.4
17	240K 1% 0.5W Metal Film	2	R120, R122	AXIAL-0.4
18	402K 1% 0.5W Metal Film	1	R103	AXIAL-0.4
19	470K 1% 0.5W Metal Film	2	R111, R117	AXIAL-0.4
20	806K 1% 0.5W Metal Film	1	R102	AXIAL-0.4
21	1M5 1% 0.5W Metal Film	1	R106	AXIAL-0.4
22	10M 1% 0.5W Metal Film	3	R101, R105, R114	AXIAL-0.4

Bill of Materials for CGS506 - MCSM Component Kit V0.2
Channel 2 [CGS506 - MCSM Component Kit]

Item	Description	Qty	Designator	Package
CAPACITOR				
1	100nF Ceramic	2	C201, C202	RAD-0.2N
CONNECTOR				
2	8-pin IC Socket 0.3inch	3	Q101, Q102, Q103	DIP-8
3	14-pin IC Socket 0.3inch	1	U101	DIP-14
4	1x8 Pin Receptacle	1	X1	2212S
5	1x4 Pin RA Header	1	X2	-
6	1x4 Pin Receptacle	1	X2	2212S
7	1x8 Pin RA Header	1	X1	-
DIODE				
8	1N4148	1	D101	DIODE-0.3
LINEAR				
9	LM3900 - Quad Norton Amplifier	1	U101	DIP-14
RESISTOR				
10	5K11 1% 0.5W Metal Film	4	R110, R112, R116, R118	AXIAL-0.4
11	16K2 1% 0.5W Metal Film	1	R123	AXIAL-0.4
12	33K 1% 0.5W Metal Film	1	R124	AXIAL-0.4
13	37K4 1% 0.5W Metal Film	2	R107, R113	AXIAL-0.4
14	57K6 1% 0.5W Metal Film	2	R109, R115	AXIAL-0.4
15	63K4 1% 0.5W Metal Film	1	R108	AXIAL-0.4
16	200K 1% 0.5W Metal Film	2	R119, R121	AXIAL-0.4
17	240K 1% 0.5W Metal Film	2	R120, R122	AXIAL-0.4
18	402K 1% 0.5W Metal Film	1	R103	AXIAL-0.4
19	470K 1% 0.5W Metal Film	2	R111, R117	AXIAL-0.4
20	806K 1% 0.5W Metal Film	1	R102	AXIAL-0.4
21	1M5 1% 0.5W Metal Film	1	R106	AXIAL-0.4
22	10M 1% 0.5W Metal Film	3	R101, R105, R114	AXIAL-0.4

Main [CGS506 - MCSM Component Kit]

Item	Description	Qty	Designator	Package
CAPACITOR				
1	82pF 5% Ceramic	4	C103, C106, C203, C206	RAD-0.2N
2	33nF 63V Polyester	4	C102, C105, C202, C205	RAD-0.2
3	100nF Ceramic	8	C503, C504, C505, C506, C507, C508, C509, C510	RAD-0.2N
4	330nF 63V Polyester	4	C101, C104, C201, C204	RAD-0.2
5	10uF 35V Electrolytic	2	C501, C502	RB-D5.0-P2.0
CONNECTOR				
6	8-pin IC Socket 0.3inch	2	U102, U202	DIP-8
7	IDC10 Box Header	2	J502, J503	2.54MM
8	CRIMP - KK396	4	J501^4	-
9	KK396 - 4-way Straight - Locking Header	1	J501	-
10	KK396 - 4-way Crimp Housing	1	J501	3.96MM
11	14-pin IC Socket 0.3inch	1	U102	DIP-14
12	16-pin IC Socket 0.3inch	2	U101, U201	DIP-16
LINEAR				
13	TL072 Dual JFET Opamp	2	U102, U202	DIP-8
14	LM13700 - Dual OTA	2	U101, U201	DIP-16
INDUCTOR				
15	Ferrite Bead - 5A	2	L501, L502	AXIAL-0.3
RESISTOR				
16	330R 1% 0.5W Metal Film	2	R213, R214	AXIAL-0.4
17	20K 1% 0.5W Metal Film	4	R301, R302, R401, R402	AXIAL-0.4
18	22K 1% 0.5W Metal Film	8	R102, R104, R108, R110, R202, R204, R208, R210	AXIAL-0.4
19	47K5 1% 0.5W Metal Film	4	R101, R107, R201, R207	AXIAL-0.4
20	68K 1% 0.5W Metal Film	8	R105, R106, R111, R112, R205, R206, R211, R212	AXIAL-0.4
21	10M 1% 0.5W Metal Film	4	R103, R109, R203, R209	AXIAL-0.4

Bill of Materials for CGS506 - MCSM Component Kit V0.2
Balanced [CGS506 - MCSM Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	100nF 630V Ceramic	1	C1	RAD0.2N
2	100nF Ceramic	2	C2, C3	RAD-0.2N
	CONNECTOR			
3	8-pin IC Socket 0.3inch	2	U1, U2	DIP-8
4	3-way 0.1inch Crimp Housing	2	J31, J41	2.54MM
5	CRIMP - KK254	6	J31^3, J41^3	-
6	1x5 Pin 9mm Header	1	J2	-
7	3-way 0.1inch Straight Header	2	J31, J41	2.54MM
	HARDWARE			
8	M2.5 x 12mm Spacer Threaded	2	MH1, MH2	-
9	M2.5 x 6mm Pan Head Bolt	4	MH1^2, MH2^2	-
	LINEAR			
10	RC4559 - Hi-Performance Dual Opamp	2	U1, U2	DIP-8
	RESISTOR			
11	10R 1W wirewound	1	R1	-
12	100R 1% 0.5W Metal Film	4	R34, R35, R44, R45	AXIAL-0.4
13	1K0 1% 0.5W Metal Film	2	R31, R41	AXIAL-0.4
14	3K6 1% 0.5W Metal Film	2	R36, R46 NB: Consumer Line Level	AXIAL-0.4
15	10K 0.1% Metal Film	4	R32, R33, R42, R43	AXIAL-0.4
16	14K 1% 0.5W Metal Film	2	R36, R46 NB: Professional Line Level	AXIAL-0.4
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