

BILL OF MATERIALS

Item Name: DGS2_RC12_BOM_R10
Revision: C1.2
Date: 2022-06-22

Item	Ref. Des.	# Req	Mfr.	Mfr.'s Part No.	Fab Notes
Circuit Board, DGS2_RC12		1		DGS2_RC12	0.062" FR4; 2-layer; HASL lead free; green mask; white silk
Connector, 8 pin female	J1	1	Sullins	PPPC081LGBN-RC	MATE: Sullins PBC08SBAN
Connector, 2 pin female	J11-13	3	Samtec	MMS-102-01-F-SV	ALT: TE 2314876-2,2314868-2,2314878-2,2314870-2
Capacitor, Ceramic, 0.1uF 16V 0603	C4,5,7,9,14,20,21,26,32,33,39	11	Kemet	C0603C104M4RACTU	
Capacitor, Ceramic, 0.47uF 16V 0603	C27,28,30,31	4	Kemet	C0603C474M4RAC7867	
Capacitor, Ceramic, 4.7uF 10V 0603	C13,29	2	Kemet	C0603C475M8PAC7867	
Capacitor, Ceramic, 10uF 6.3V 0603	C22,36,37	3	Kemet	C0603C106M9PAC7867	
Resistor, 10K 5% 0603	R2,3,7	3	Yageo	RC0603JR-0710KL	
Resistor, 2k 0.1% PRECISION 0603	R4	1	Panasonic	ERJ-PB3B2001V	
Resistor, 2.2 5% 0603	R25,28,29	3	Yageo	RC0603JR-072R2L	
Resistor, SHORT, 0603	R30	1	Yageo	RC0603JR-070RL	
Resistor, SHORT, 0603 (OPTION: Ferrite)	L3-5	3	Yageo	RC0603JR-070RL	POPULATED w/ SHORT, per ADI EVAL-AD5941ELCZ OPTION: MC0603WG00000T Ferrite Bead, 0.25Ohm MAX DCR, 0.8A
Ferrite Bead, 600Ohm, 1A, 150mOhm, 0603	L2	1	Murata	BLM18KG601BH1D	ALT: MPZ1608S601ATA00
IC, EC AFE, AD5941, 7x7 LFCSP-48	U4	1	AD	AD5941BCPZ	
IC, T&RH sensor, DFN-6 3x3	U3	1	Sensirion	SHT20	ALT: Sensirion SHT21, SiLabs SI7021-A20-GMR, TE HTU21D
IC, processor, SSOP-28	U2	1	Microchip	PIC24F16KM202-I/SS	
Thermistor, 470k, 5%, NTC, 0603	R18	1	Murata	NCP18WM474J03RB	
Resistor, 470k 1%, 0603	R17	1	Yageo	RC0603FR-07470KL	
Crystal, 16 MHz	Y1	0	Abracon	ABM8-16.000MHZ-7-1-U-T	DNI
Capacitor, Ceramic, 6.8pF 25V 0603	C34,35	0	Kemet	C0603C689K5GAC7867	DNI
Resistor, 499k 1%, 0603	R1	0	Yageo	RC0603FR-07499KL	DNI
Connector, Programming Header	J3	0	N/A		DNI
Resistor, DNI, 0603	R26,27	0	N/A		DNI
Capacitor, Ceramic, DNI, 0603	C12,15,16	0	N/A		DNI
Capacitor, Tantalum, DNI, 0603	C2	0	N/A		DNI
Mounting Hole	TP6	0	N/A		DNI