

Bill of Materials for the STR-DMS-CONTROL-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C2	2	MLC capacitor 100nF 25V X5R 10% Murata	100 nF	±10%	402	Murata	GRM155R61E104KA87D	Yes	Yes
C3, C4	2	MLC capacitor 1µ5 25V X7R 10% Murata	1µ5	±10%	805	Murata	GRM21BR71E155KA88L	Yes	Yes
C5	1	MLC capacitor 4µ7 10V X5R 20% Murata	4µ7	±20%	402	Murata	GRM155R61A475MEAAD	Yes	Yes
C6, C7	2	MLC capacitor 1µF 25V X5R 10% Murata	1 µF	±10%	603	Murata	GRM188R61E105KA12D	Yes	Yes
CON1, CON2, CON3	3	FPC vertical connector vertical 6pins, 0.5 mm pitch Amphenol FCI	F31G-1A7H1-11006	-	Through hole	Amphenol FCI	F31G-1A7H1-11006	Yes	Yes
CON4	1	WR-PHD 2.00 mm THT Pin Header Würth Elektronik	620 002 111 21	-	Through hole	Würth Elektronik	62000211121	Yes	Yes
CONS	1	WR-PHD 2.54 mm Angled Dual Socket Header 2x8 pins	613 016 243 121	-	Through hole	Würth Elektronik	613016243121	Yes	Yes
JMP1	1	WR-PHD 2.00 mm Jumper with Test Point Würth Elektronik	608 002 134 21	-	Jumper pins	Würth Elektronik	60800213421	Yes	Yes
Q1, Q2	2	NMOS 60V 0.115A 7.50hm ON Semiconductor	2N7002LT1G	-	SOT-23-3 (TO-236)	ON Semiconductor	2N7002LT1G	No	Yes
R1, R2	2	SMD thick film resistor 100k 0805 1% 125 mW Panasonic	100k	±1%	805	Panasonic	ERJ6ENF1003V	Yes	Yes
R3	1	SMD thick film resistor 33k2 0603 1% 100 mW Panasonic	33k2	± 1%	603	Panasonic	ERJ3EKF3322V	Yes	Yes
R4	1	SMD thick film resistor 100k 0603 1% 100 mW Panasonic	100k	±1%	603	Panasonic	ERJ3EKF1003V	Yes	Yes
R5	1	SMD thick film resistor 10k 0603 1% 100 mW Panasonic	10k	±1%	603	Panasonic	ERJ3EKF1002V	Yes	Yes
SCREW1, SCREW2, SCREW3, SCREW4	4	Pan head PH1 cross recessed screw M3 according ISO7045 length 10 mm	screw M3x10 ISO7045	-	-	-	-	Yes	Yes
SP1, SP2, SP3, SP4	4	Plastic spacer internal/internal M3x6 thread, 25mm Würth Elektronik	Plastic spacer M3 F/F 10/25 HEX6	-	-	Würth Elektronik	970250365	Yes	Yes
TP1, TP2, TP3, TP4	4	PTH testpoint eyelet 3.2mm black Keystone Electronics	BLACK	-	-	Keystone Electronics	5006	Yes	Yes
U1, U2	2	Precision Operational Amplifier, Low Offset, 10 MHz, Rail-to-Rail	NCS20166	-	SC-74A (SOT23-5)	ON Semiconductor	NCV20166SN2T1G	No	Yes
U3	1	Dual Non-Inverting Buffer with Schmitt Trigger Input ON	NLV27WZ17DFT2G	-	SC-88/SC70-6/SOT-363	ON Semiconductor	NLV27WZ17DFT2G	No	Yes
U4	1	EEPROM Serial 512 kb I2C	CAT24CS12HUSIGT3	-	8-UDFN (3x2)	ON Semiconductor	CAT24CS12HUSIGT3	No	Yes

