CUSTOMER	MIT	
PROJECT	2022-0630 (CITYSCANNER-EVO-SENSOR)	
REVISION	2	
SCHEMATIC	20220630_CITYSCANNER-EVO-SENSOR_V2	
DATA	23/05/2023	
DRAFTED	M.	
APPROVED	Nome Approved	TECHNOLOGY

em C	Quantity	Reference	Part	MPN	MPN2	Description	Temperature	Distributor	Туре	Package	Databa
1	1 CS1		CS V2 2L 35um			C.S. CS SENSOR V2 (115x52)mm HAL 2L/SO/SR sp=1.6mm Cu=35um	TG140	WE-ONLINE			
	C9 C10 C1		2			od oddin					
	C99.C102.	C103,C104,C105,C106,C108,C109,C1									
2	36 10,C111,C1	112,C113,C114,C115,C116,C117,C123	100n/50V			CHIP CAP.CER. 100nF 50V 10% X7R 0402	-55+125		SMD	CS-C-0402	
		5,C126,C128,C129,C130,C132,C133									
3	8 C21,C22,C	23,C24,C25,C26,C107,C134	10u/10V-X5R			CHIP CAP.CER. 10uF 10V 10% X5R 0603		FAE	SMD	CS-C-0603	2
4	4 C121,C122	,C127,C131	1u/16V-X5R			CHIP CAP.CER. 1uF 16V 10% X5R 0402		FAE	SMD	CS-C-0402	;
5	2 DZ3,DZ5		MMSZ5226BT1G	MMSZ5226BT1G		DIODO ZENER 0.5W 3.3V MMSZ5226BT1G ONSEMI SOD123		M-863-	SMD	SOD123	
<u> </u>	2 020,020		WWWOZOZZOBTTO	IVIIVIOZOZZOBITO		SMT		MMSZ5226BT1G	OIVID	000120	
6	2 DZ4,DZ7		MMSZ5221BT1G	MMSZ5221BT1G		DIODO ZENER 0.5W 2.4V MMSZ5221BT1G ONSEMI SOD123		M-863- MMSZ5221BT1G	SMD	SOD123	
7	2 F2,F3		0ZCM0020FF2G	0ZCM0020FF2G		FUSIBILE RIPRIST. 0.2A 9V 0603 0ZCM0020FF2G BEL FUSE	40° +05°	FAE	SMD	FS-0603	
/	2 72,73		UZCIVIUUZUFFZG	UZCIVIUUZUFFZG		SMT	-40+00	FAE	SIVID	F5-0003	
8	1 J7		878322014	878322014		HEADER 20P M DOPPIA FILA P=2.00 878322014 MOLEX	-55105	M-538-87832-2014	SMD	J-10X2-0200-MDS-878322014	
q	2 J9,J10		STRIP 8P - FDT			STRIP 1P F/D P=2.54 H=7 NERA 801-87-036-1001		FAE	THT	J-8-0254-FDT	
10								D-2073-BF100-10-A-D-			
10	1 J11		BF100-10-A-D-1-0640-L-C	BF100-10-A-D-1-0640-L-C		CONN. F-C 10P F/D P=2 BF100-10-A-D-1-0640-L-C GCT SMT		1-0640-L-CCT-ND	SMD	J-5X2-0200-FDS-BF100	
11	1 J12		SM06B-GHS-TB	SM06B-GHS-TB		CONN. GH 6P M/O P=1.25 GH JST SM06B-GHS-TB(LF)(SN)	-25°+85°	D-455-1568-1-ND	SMD	J-6-0125-MOS-SM06B-GHS-TB	
12	1 J13		S5B-ZR-SM4A-TF	S5B-ZR-SM4A-TF			-25°+85°	D-455-1696-1-ND	SMD	J-5-0150-MOS-S5B-ZR-SM4A	
13	5 L3,L5,L6,L7	7,L8	BLM21PG221SN1D	BLM21PG221SN1D		FILTRO 220R 2A 25% 0805 BLM21PG221SN1D MURATA	-55°+125°	FAE	SMD	LS-0805	
1/	3 Q11,Q24,Q	<u> </u>	BSS84			TRANSISTOR MOSFET P BSS84,215 SOT-23 SMT	-55°+150°	FAE	SMD	SOT23	
15	3 Q12,Q25,Q		BC817-25			TRANSISTOR NPN BC817-25 SOT-23 SMT	-55+150	FAE	SMD	SOT23	
16	1 Q28	21	BSS138			TRANSISTOR MOSFET N BSS138 SOT-23 SMT		FAE	SMD	SOT23	
10		20,R21,R22,R23,R24,R25,R26,R27,R2				THE WOOD FOR MICONE LAND BOOK OF THE SUM		I AL	OWID	00120	
17		R36,R40,R41,R42,R43,R44,R45,R46,				CHIP RES. 33R 0402 1/16W 1% 100PPM/°C		FAE	SMD	RS-0402	
		96,R97,R101,R102,R226,R231									
18	2 R34,R48		0R				-55°+150°	FAE	SMD	RS-0603	
19	5 R35,R61,R	62,R249,R288	0R			CHIP RES. 0R 0402 1/16W 1%		FAE	SMD	RS-0402	
20	15 R37,R57,R3	232,R236,R239,R240,R241,R242,R24 70,R271,R276,R289,R290	100k			CHIP RES. 100K 0402 1/16W 1%		FAE	SMD	RS-0402	
21	4 R51,R234,F		1k			CHIP RES. 1K 0402 1/16W 1%	-55°+155°	FAE	SMD	RS-0402	
22		105,R225,R230,R280	100R			CHIP RES. 100R 0402 1/16W 1%		FAE	SMD	RS-0402	
	R59,R60,R	106,R233,R235,R237,R238,R247,R25									
23		56,R257,R258,R263,R264,R265,R266,	10k			CHIP RES. 10K 0402 1/16W 1%	-55°+125°	FAE	SMD	RS-0402	
24		,R278,R281,R284	E 41.			CUID DEC. FIXA 0400 4/4CW 40/	EE0 .4EE0		CMD	RS-0402	
24 25	2 R267,R268	,R259,R260,R261,R262	5.1k 1M			CHIP RES. 5K1 0402 1/16W 1% CHIP RES. 1M 0402 1/16W 1%	-55°+155°	FAE FAE	SMD SMD	RS-0402	
26	1 R269		390R			CHIP RES. 390R 0603 1/16W 1%		FAE	SMD	RS-0603	
27	2 R273,R275		120k	RC0402FR-07120KL		CHIP RES. 120k 0402 1/16W 1% 100PPM/C		IAL	SMD	RS-0402	-
28	1 R283		2.2k	100402110712002		CHIP RES. 2K2 0402 1/16W 1%		FAE	SMD	RS-0402	
		4.4				INTECDATO SIGNAL DEOTECTION D3\/3E8LI0LD3840.7	FF0 . 0F0	M-621-			
29	2 TVS7,TVS ²	11	D3V3F8U9LP3810-7			DIODES UDFN3810-9 SMT	-55°+85°	D3V3F8U9LP3810-7	SMD	UDFN3810-9	
20	TVS8,TVS9	9,TVS10,TVS13,TVS14,TVS15,TVS16	NORMOTEO			DIODO TVS TRANSIL UNIDIR. 5.5V NSPU3051N2T5G X2DFN	050 4500	D-	0145	D VDENO	
30		S18,TVS19,TVS20,TVS21,TVS22	NSPU3051N2T5G			SMT	-65°+150°	NSPU3051N2T5GOSC T-ND	SMD	D-XDFN2	
31	2 U1,U3		TXS0104ERGYR	TXS0104ERGYR		INTEGRATO TXS0104ERGYR TEXAS VQFN14 SMT	-40°C85°C	FAE	SMD	VFQFN14-EXP-0350X0350	
32	1 U2		TXS0108ERGYR	TXS0108ERGYR			-40°85°	D-296-24806-1-ND	SMD	VFQFN20-EXP-0350X0450	
33	1 U15		74LV4066PW	74LV4066PW			-40°C125°C		SMD	TSSOP14	
34	1 U16		BME280	BME280			-40°+85°	FAE	SMD	IC-BME280	
35	1 U17		ADS7828E	ADS7828E	ADS7828EB	INTEGRATO ADC/DAC ADS7828E TEXAS TSSOP16 SMT	-40°+85°	FAE	SMD	TSSOP16	
36	1 U18		CMM-2718AT-42316-TR	CMM-2718AT-42316-TR		MICROPHONE MEMS CUI DEVICES SMT	-40°+100°	M-490-	SMD	lga4-0275x0185	
37	1 U19		LTC1966IMS8	LTC1966IMS8#PBF			-40°+85°	CMM2718AT42316TR M-584-	SMD	MSOP8	
31	1013		LT O TOUGHNIOU	LI O 1000IIVIO0#I DI				LTC1966IMS8#PBF	SIVID	INIOOT O	
38	2 U20,U21		MCP6022-I/SN	MCP6022-I/SN		INTEGRATO SIGNAL AMPLIFIER MCP6022-I/SN MICROCHIP SOIC-8 SMT	-40°+85°	M-579-MCP6022-I/SN	SMD	SOIC8	
39	1 U22		MAX5805BAUB+T	MAX5805BAUB+T		INTEGRATO DAC MAX5805BAUB+ MAXIM MSOP10 SMT	-40°+125°	M-700-	SMD	MSOP10	
								MAX5805BAUB+T	1		

MECHANICAL

1	1 ASS1	SEN55-SDN-T	SEN55-SDN-T	SENSORE PM SEN55-SDN-T SENSIRION	-10°50°	M-403-SEN55-SDN-T	THT	
2	2 1 ASS2	810-0021-01	810-0021-01	SENSORE NO2/O3/NO 810-0021-01 ALPHASENSE	-10°50°		THT	
	2		•	•	•	2	·	

NOT MOUNTED

1	1 ASS3	NU	SPS30	SENSORE PM SPS30 SENSIRION	-10°60°	M-403-SPS30	THT		
2	2 1 C14	NU		CHIP CAP.CER. 1nF 50V 10% X7R 0402		FAE	SMD	CS-C-0402	33357
3	2 C100,C101	NU		CHIP CAP.CER. 100nF 50V 10% X7R 0402	-55+125		SMD	CS-C-0402	
4	2 DS5,DS6	NU	SS14	DIODO SCHOTTKY 1A 40V SS14 SMA SMT		FAE	SMD	SMA	16655
5	3 FID1,FID2,FID3	TPS		FIDUCIAL		FAE	SMD	FIDUCIAL	
6	2 R33,R49	NU		CHIP RES. OR 0603 1/16W 1%	-55°+150°	FAE	SMD	RS-0603	15541
7	7 5 R38,R228,R243,R286,R287	NU		CHIP RES. OR 0402 1/16W 1%		FAE	SMD	RS-0402	25681
8	1 R39	NU		CHIP RES. 33R 0402 1/16W 1% 100PPM/°C		FAE	SMD	RS-0402	38764
9	5 R248.R250.R251.R277.R285	NU		CHIP RES. 10K 0402 1/16W 1%	-55°+125°	FAE	SMD	RS-0402	25129