TEXAS INSTRUMENTS Bill of Materials TIDESIONS TIDESIONS

Automotive Resistive Pressure Sensor Interface										
Item # Quantity	Designator	Comment	Description	Footprint	P/N	P/N (DIGIKEY)	REMARKS	P/N (NEWARK)		
	•			CAPACITORS	•	•	•			
1 5	C1, C35, C42, C52, C53	1uF,16V,X7R	1uF,0805,16V,10%,X7R	0805	C2012X7R1C105K	445-1358-1-ND				
2.42	C2, C3, C4, C5, C34, C36, C37, C39, C40, C46, C48, C68	0.1uF,16V,X7R	0.1uF,0603,16V,10%,X7R	0.003	DOD TOOK I NO COVERGRANT TO A TO			1		
3 2	C6. C7	0.1uF,16V,X7R 36pF,50V,C0G	0.1uF,0603,16V,10%,X7R 36pF,0603,50V,5%,C0G	0603	399-1096-1-ND, C0603C104K4RACTU GRM1885C1H360JA01D	399-1096-1-ND, C0603C104K4RACTU 490-1416-1-ND		1		
4 1	C8	0.1uF,16V,X7R	0.1uF,0805,16V,10%,X7R	0805	C0603C104K4RACTU	399-1096-1-ND	603 VS 805 PACKAGE USE 805 package			
	C9, C17, C43, C45, C49, C51, C54, C60, C61, C62, C63,	0.1uF.50V.X7R	0.1uE 0805 50V 10% X7R		C2012X7R1H104K	445-1349-2-ND				
6 4	C10, C15, C26, C31	0.1uF,50V,X7R 0.01uF, 0.01uF,50V,X7R	0.1uF,0805,50V,10%,X7R 0.01uF,0805,50V,10%,X7R	0805	C2012X7R1H104K C2012X7R1H103K	445-1349-2-ND 445-1348-1-ND				
7 1	C12	10uF,16V,Tant	10uF,1206,16V,10%,Tant	1206	B45196H3106K109	495-2236-1-ND				
8 1	C14	22uF,16V,Tant	22uF,1206,16V,20%,Tant	1210	TCTAL1C226M8R	511-1502-1-ND				
9 2	C18, C21 C19, C22	Cap Var 30pF	7-50pF, 50V 30pF,0805,100V,5%,NP0	Cap Var - Murata	TZB4R500BA10R00 08051A300JAT2A	490-1983-6-ND 478-3738-1-ND				
11 2	C20, C23	560F	56pF,0805,100V,5%,NP0 56pF,0805,100V,5%,COG	0805	08051A560JAT2A	478-5023-1-ND				
12 4	C24, C27, C28, C32	1nF	1nF,0805,50V,10%,X7R	0805	C2012X7R1H102K	445-1347-1-ND				
13 4	C30, C33, C38, C41	2.2nF,16V,X7R	2.2nF,0603,16V,10%,X7R	0603	C0603C223K4RACTU	399-1093-1-ND	2.2NF VS 22NF USE 2.2nF			
14 2	C44, C47	100pF,50V,,X7R	100pF,0805,50V,10%,X7R	0805	C2012C0G1H101J	445-1329-1-ND 445-2314-1-ND	5% VS 10% USE Either Tolerance			
15 1	CSO	100pF,250V,C0G	100pF,0603,250V,5%,C0G	0603	C160BC0G2E101J	445-2314-1-ND				
16 1	CBulk1	100uF,16V, AL	100uF,16V, 20% AL	CAP 6.6 X 6.6 MM SMD	EEV-TG1C101P	PCE3619CT-ND				
			11184	DEDC / HEADEDC						
	T			PERS / HEADERS				,		
17 1	л	Female	Receptacle Assembly, 9 Position, RA/F The Following Four Parts (Item #: 18-21) Will Be	DSUB1.385-RA/F	A35109-ND	1734348-1		1		
	JP1, JP2, JP3, JP4, JP5, JP6, JP7, JP8, JP9, JP11, JP13,			cut from the Larger Part (A20013-40) to th						
18 19	JP14, JP15, JP16, JP18, JP22, JP23, JP28, JP29	JUMPER 2 PIN	Two Pin Jumper	JMP0.2	4-103185-0	A26513-40-ND				
19 6	JP10, JP12, JP17, JP19, JP26, JP27	JUMPER 3 PIN Header 4	Three Pin Jumper Header, 4-Pin	JMP0.3 HDR1X4	4-103185-0	A26513-40-ND				
21 1	H2	Header 4 Header 6	Header, 4-Pin Header, 6-Pin	HDR1X4 HDR1X6	+					
22 2	P1, P3	GND, VPWR	BANANA STACK (FEMALE END)	BANANA-LARGE-HEX - R2D2	35F865			96B5641		
23 1 24 1	P2	2 Pos Term Block Header 20X2	2 Pos Term Block Header, 20-Pin, Dual row	2 Pos Term Block HDR2X20	1729018 4-103240-0	277-1236-ND A26528-40-ND				
25 1	P6	TIGER - A	TIGER - A	HDR-2x15-M	TSW-115-08-T-D-RA	SAM1049-15-ND				
				TODO 0011 0 FTC						
			INDUC	TORS, COILS, ETC.						
26 4	L1, L2, L3, L4	0R		0805	MCR10EZPJ000	RHM0.0ARCT-ND				
	1	1	1	RESISTORS	II.	1	L.	1		
27	6 R1, R2, R12, R13, R22, R23	0.08	0.0,0603,1/10W,5%	NEOIO I ONO	MCR03EZPJ000	RHM0.0GCT-ND		1		
28 1	R5	1M	0.0,0603,1/10W,5% 1M.0603.1/10W.5%	0603	MCR03EZPJ000 MCR03EZPJ105	RHM1.0MGCT-ND				
29 1 30 1	R6	200R	200,0805,1/8W,1%	0805	MCR10EZPJ201	RHM200ARCT-ND				
	R7	1k	1k,0805,1/4,1%	0805	MCR10EZPF1001	RHM1.00KCRCT-ND				
31 1 32 4	R8 R9, R10, R19, R20	47k 10k	47k,0805,1/10W,5% 10k,0805,1/8W,5%	0805 x 4 Concave (2012 metric) 0805	743C083473JPTR MCR10EZPF1002	743C083473JPCT-ND RHM10.0KCRCT-ND				
33 4	R14, R15, R27, R28	RPol	SM-42TX502	pot_murata	SM-42TX502	SM-42TX502CT-ND				
33 4 34 4	R17, R18, R29, R30	7.5k	7.5k,0805,1/8W,5%	0805	MCR10EZHJ752, RHM7.5KACT-ND	MCR10EZHJ752, RHM7.5KACT-ND				
35 8	R24, R25, R31, R32, R35, R36, R40, R41	1k	1k,0603,1/10W,1%	0603	MCR03EZPFX1001	RHM1.00KHCT-ND				
36 19	R33, R34, R37, R38, R39, R42, R43, R49, R50, R51, R52, R69, R76, R77, R78, R79, R80, R89, R91	49.9k	49.9k,0603,5%,1/10W	0603	MCR03EZPFX4992, RHM49.9KHCT-ND	MCR03EZPFX4992, RHM49.9KHCT-ND				
37 4	R44, R45, R47, R48	49k	49k,0805,1/8W,5%	0805	MCR03EZPFX4992	RHM49.9KHCT-ND	49.9K^ VS 49K^ OR 603 VS 805 USE 805 49.9k			
38 1 39 2	R46 R53. R55	200R	200,0805,1/8W,5%	0805	MCR10EZPJ201	RHM200ARCT-ND		1		
39 2 40 1	R53, R55 R54	4.99k 200R	4.99k,0603,1/10W,196 200,0805,1/8W,1%	0603 0805	MCR03EZPFX4991 MCR10EZPJ201	RHM4.99KHCT-ND RHM200ARCT-ND				
41 1	R64	1k	200,0805,178W,176 1k,0603,1/10W,5%	0603	MCR03EZPJ102	RHM1.0KGCT-ND				
42 1	R66	220k	220k,0603,1/10W,5%	0603	MCR03EZPJ224	RHM220KGCT-ND				
43 1 44 1	R68	5R	5R,1206,1/3W,5%	1206	ESR18EZPJ5R1	RHM5.1ICT-ND RHM10.0HCT-ND	5^ VS 5.1^ USE 5.1 Ohms 603 VS 805 USE 805	1		
44 1 45 4	R70 R75. R81. R87. R94	10R 100,0805,1/10W,5%	10R,0603,1/10W,1% 100,0805,1/10W,5% - NETWORK	0805 x 4 Concave (2012 metric)	MCR03EZPFX10R0 743C083101JPTR	RHM10.0HCT-ND 743C083101JPCT-ND	0U3 V3 8U5 U5E 8U5			
46 1	R88	332, 0805,1/8W,5%	332, 0805,1/10W,5% - NETWORK	0805	MCR10EZPF3320	RHM332CRCT-ND				
47 2	R93, R930	510,0805,1/8W,5%	510,0805,1/8W,5%	0805	MCR10EZPJ511	RHM510ARCT-ND				
48 1	R931	1.1k	1100,0805,1/8W,5%	0805	MCR10EZPJ112	RHM1.1KARCT-ND		1		
	1	1	TI - SI	EMICONDUCTORS	1		t	1		
				#: 49-64) Will Be Provided By Texas Instr	umante					
			The Conoming Pales (Italia	2., rim be i remed by reads filled			QFN ICs are not available from standard inventory. They are orderable here: http://giant2.itq.ti.com/hval/msa/cisevm.nst/Reques			
49 1	U1	PGA400 - PSSC QFN			790-41036-101T		1?OpenForm			
50 1	U2	TLV1117	TLV1117CDCYR	PG-SOT-223	296-17598-1-ND	296-17598-1-ND				
51 1 52 3	U4 U5, U10, U19	REG102-5 OPA2335UA	REG102NA-5/250 OPA2335AIDR	DBV (R-PDSO-G5) 182H L	REG102NA-5/250 OPA2335AIDR	REG102NA-5CT-ND 296-14170-5-ND should be 296-13462-1-ND	MPN & DIGIKEY PART NOT SAME			
52 3	U6, U7, U9, U11	TS5A3359	TS5A3359DCUR	MSOP8 (DCU)	TS5A3359DCUR	296-14170-5-ND should be 296-13462-1-ND 296-21193-1-ND	MEN & DIGINET PARTINUT SAME			
54 1	U8	DAC8574	DAC8574IPW	PW (R-PDSO-G)-16	DAC8574IPW	296-14170-5-ND				
55 2 56 1	U12, U13	SN74LVC1G07	SN74LVC1G07DBVR	DBV (R-PDSO-G5)	SN74LVC1G07DBVR	296-8485-1-ND				
56 1	U14	ADS1100A2	ADS1100A2IDBVT	DBV (R-PDSO-G6)	ADS1100A2IDBVT	296-12966-1-ND should be 296-14299-1-ND	MPN & DIGIKEY PART NOT SAME	1		

		Designator	Comment	Description	Footprint	P/N	P/N (DIGIKEY)	REMARKS	P/N (NEWARK)
57	1	U15	TS12A44514	TS12A44514PWR	PW (R-PDSO-G)-14	TS12A44514PWR	296-23621-1-ND		
58		U16	ADS1100A3	ADS1100A3IDBVT	DBV (R-PDSO-G6)	ADS1100A3IDBVT	296-14298-1-ND should be 296-14300-1-ND	MPN & DIGIKEY PART NOT SAME	
59		U17, U27	TS5A23159	TS5A23159DGSR	MSOP10 (DGS)	TS5A23159DGSR	296-18598-1-ND		
60	1	U18	ADS1100A4	ADS1100A4IDBVT	DBV (R-PDSO-G6)	ADS1100A4IDBVT	296-14299-1-ND should be 296-14301-1-ND	MPN & DIGIKEY PART NOT SAME	
61		U20	ADS1100A5	ADS1100A5IDBVT	DBV (R-PDSO-G6)	ADS1100A5IDBVT	296-14300-1-ND should be 296-14302-1-ND	MPN & DIGIKEY PART NOT SAME	
62		U23	MAX3221ECAE	MAX3221IDBR	SSOP16	MAX3221IDBR	296-9595-1-ND		
63		U25	SN74LVC1G240	SN74LVC1G240DCKR	DCK (R-PDSO-G5)	SN74LVC1G240DCKR	296-11610-1-ND		
64	1	U26	SN74CBTLV3257	SN74CBT3257CPWR	PW (R-PDSO-G)-16	SN74CBT3257CPWR	296-19211-1-ND		
				SEMIC	CONDUCTORS				
65	1	D1	Diode Schottky	DIODE SCHOTTKY 4A 40V SMB	DO-214AA	SSB44-E3/52T	SSB44-E3/52TGICT-ND		
66	4	D2, D3, D30, D31	LED2	Typical RED, GREEN, YELLOW, AMBER GaAs LED	0805 - LumexLED	67-1553-2. SML-LXT0805GW-TR	67-1553-2. SML-LXT0805GW-TR		
67	1	DZ1	13V Zener	13V Zener	DO-21488	SMBJ5350B-TP	SMBJ5350B-TPMSCT-ND		
68	1	DZ4	5.1V Zener	5.1V Zener	SOT-23	BZX84C5V1-7-F	BZX84C5V1-FDICT-ND		
69		03	SI2319DS-T1-E3	S12319DS-T1-E3	SOT-23	SI2319DS-T1-E3	SI2319DS-T1-E3CT-ND	+	1
70		04	2N2222	NPN General Purpose Amplifier	SOT-23	SMBT2222AE6327	SMBT2222AINCT-ND		
71	,	V1	ECS:400:20:30B-DU	ECS-400-20-30B-DU	Crystal 4	ECS-400-20-30B-DU	XC1520CT-ND		
/1	1	A1	ECS-400-20-30B-D0	ECS-400-20-30B-D0	Crystal 4	ECS-400-20-30B-D0	AC1520C1-ND		
				TECTONIN	IS AND SWITCHES				
				TESTPOIN					_
72		T1, T2, T3	+5V, +7.5V, VPWR		TEST POINT 0.052	151-107-RC		151-107-RC	
73		TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19,	GPIO5, GPIO6, ICAP1, ICAP2, MISO, MOSI, OWI, RX,		TEST POINT 0.042	151-201-RC		151-201-RC	
74									
75		TP1, TP2, TP3, TP4, TP200	+2.5V, AVDD, DVDD, VDD, VP_OTP		TEST POINT 0.042	151-207-RC		151-207-RC	
76		TP29	GND		TEST POINT 0.042	151-203-RC		151-203-RC	
77	15	TP39, TP40, TP41, TP42, TP44, TP45	GND		TEST POINT 0.052	151-103-RC		151-103-RC	
		•		STANDOFF	S and HARDWARE		*	•	
78	4	SPC TECHNOLOGY - 2401 - Spacer		n/a		2401			92N4906
79	4	SPC TECHNOLOGY - BG-705 - Open Grommet		n/a		BG-705			43F475
80		KEYSTONE - 09300 - Machine Screw		n/a	1	9300			30M0258
					1	1			
					1	1			
			1	1	SHUNTS	1	1	- 1	
					the Diagram in the "Hardware Assemb	Iv" Document			
81	24	CONN JUMPER SHORTING GOLD FLASH		N/A	N/A	SPC02SYAN	S9001-ND		
	-				1	1			
					1	1			
			1	NOT INSTAL	LED COMPONENTS	i '	"		
82	2	R3, R4	0.0R	0.0,0603,1/10W,5%	0603	MCR03EZPJ000	RHM0.0GCT-ND		
83	2	C25, C29	10nF - X2Y	10nF X2Y CAPACITOR	0805_X2Y	500X14W103MV4T	709-1008-1-ND		
84	1	C59	330nF.16V.X7R	330nF.0603.16V.10%.X7R	0603	C1608X7R1C334K	445-5126-1-ND		
- 04									
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