Sensata Technologies

Bill of Materials

FINISHED GOOD PART NUMBER	109645
PMCD Number	D104722
Customer Part Number	N/A
Customer Drawing Number	N/A
Part Description	EMA WHEEL END SENSOR (109645)
ECO:	479718

Document Number: 109296-4 Issue Level: 03

Process Stage	Assembly Pt No	Sub Ass'y Pt No	Component Part No	Added at Op/n No	Material	Insert	Identifier	Issue Level	Unit	Build Qty	Component Type	Value	Tolerance +ve (%)	Tolerance -ve (%)	Description	Footprint
SIDE 1			508011066870R01					R01-01	Piece	0.166666667					WHEEL END SENSOR (unpopulated)	
				RXLSMT20	30543012		Misc702		Grams	0.111					Solder Paste LF318	
			2.4GHz Antenna_1				ANT200			1	Meander_Antenna	NF			Trace Antenna	2.4GHz Antenna_1
			30548005				C200		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			30548005				C202		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			30548005				C203		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			30548005				C205		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			30544114954R01				C206		Piece	1	Capacitor	1.5pF	16.67	16.67	0402 MLCC 1.5PF C0G +/-0.25PF	0402_CAP
			30544110823R01				C207		Piece	1	Capacitor	0.5pF	50	50	0402 C0G CAPACITOR 0.5PF 50V +/-0.25PF	0402_CAP
			30546110799R01				C208		Piece	1	Capacitor	15pF	5	5	0402 C0G CAPACITOR 15PF 50V +/-5%	0402_CAP
			30546110799R01				C209		Piece	1	Capacitor	15pF	5	5	0402 C0G CAPACITOR 15PF 50V +/-5%	0402_CAP
			30507002R01				C211		Piece	1	Capacitor	22µF	20	20	0805 10V 22uF ±20% Capacitor	0805_CAP
			30548005				C212		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			30548005				C213		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			0402_CAP_NF				C214		Piece	1	Capacitor	NF				0402_CAP_NF
			0402_CAP_NF				C215		Piece	1	Capacitor	NF				0402_CAP_NF
			30548005				C600		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			0603_CAP_NF				C601		Piece	1	Capacitor	NF				0603_CAP_NF
			30548005				C602		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			0402_CAP_NF				C604		Piece	1	Capacitor	NF				0402_CAP_NF
			30549114952R01				C703		Piece	1	Capacitor	68pF	1	1	0402 MLCC 68PF 50V C0G 1%	0402_CAP
			30547004				C705		Piece	1	Capacitor	10nF	5	5	0402 50V X7R 10nF +/-5% Cap	0402_CAP
			30549003R01				C706		Piece	1	Capacitor	12pF	1	1	0402 50V C0G 12PF +/-1% CAP	0402_CAP
			30547004				C807		Piece	1	Capacitor	10nF	5	5	0402 50V X7R 10nF +/-5% Cap	0402_CAP
			30510109188R01				C808		Piece	1	Capacitor	10µF	10	10	1206 10UF 16V 10% X7R CAPACITOR	1206_CAP
			30510108854R01				C811		Piece	1	Capacitor	47µF	10	10	MURATA GRT31CR61A476KE13 1206 X5R 47UF	1206_CAP
			4PIN_HEADER_TH_NF				CON100		Piece	1	Connector	NF				4PIN_HEADER_TH_NF
			SHF-01-L-D-SM_NF				CON101		Piece	1	Connector (JTAG)	NF				SHF-01-L-D-SM_NF
			MM8130-2600_NF				CON200		Piece	1	SMA	NF				MM8130-2600_NF
			30577116757R01				L200		Piece	1	Ferrite	1500 ohms @ 100MHz	25	25	0603 INDUCTOR MMZ1608Y152BTD25 TDK	0603_IND
			30577106105R01				L203		Piece	1	Inductor	6.8uH	20	20	TDK 0805 INDUCTOR MLZ2012N6RLT000	0805_IND
			30577182R01				L204		Piece	1	Inductor	22nH			22nH 0402 +/-5% MLG1005S22NJTD25	0402_TDK
			30577106852R01				L801		Piece	1	Inductor	2.2uH	20	20	MURATA DFE201612E-2R2M=P2 2.2UH 2016 INDUCTOR	2016_IND
			0402_RES_NF				R101		Piece	1	Resistor	NF				0402_RES_NF
			30515001				R200		Piece	1	Resistor	100K	5	5	0402 Resistor 100K +/-5pc	0402_RES
			30514001				R201		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30514001				R500		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30514001				R501		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30514001				R502		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30514001				R503		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30516108630R01				R803		Piece	1	Resistor	52.3K	.1	1	0402 THICK FILM RESISTOR 52.3K 0.063W +/-1%	0402_RES
			30514001				R805		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30515001				R808		Piece	1	Resistor	100K	5	5	0402 Resistor 100K +/-5pc	0402_RES
			30515001				R812		Piece	1	Resistor	100K	5	5	0402 Resistor 100K +/-5pc	0402_RES
			30514001				R817		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30514001				R827		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			SOT_23_NF				U100		Piece	1	Transient Voltage Suppressor	NF				SOT23_NF
			30550104738R01				U200		Piece	1	Other Special IC	2450BM14G0011			2.4GHZ IMPEDANCE MATCHED BALUN	2.4GHz Balun
			30550105985R01				U201		Piece	1	Other Special IC	CC2652R			MULTIPROTOCOL 2.4-GHZ WIRELESS MCU CC2652R1FRGZR	VQFN50P700X700X700-49-515X515
			30539106245R01				U500		Piece	1	Memory Chip	MX25R1635FZUIL0			MACRONIX MX25R1635FZUIL0 FLASH MEMORY USON8	USON8
			30550106239R01				U600		Piece	1	Other Special IC	ADXL325			ANALOG DEVICES ADXL325BCPZ9L ACCELEROMETER	LFCSP_LQ
			30550106258R01				U700		Piece	1	Other Special IC	ST25DV04K-JFR8D3			ST ST25DV04K-JFR8D3 NFC	UFDFPN12
			30550108524R01				U801		Piece	1	Other Special IC	TPS62840DLC			T.I. TPS62840DLC STEP DOWN CONVERTER	SON8
			30534098R01				X200		Piece	1	Xtal 2 Pin	32.768kHz	20ppm	20ppm	NX3215SA-STD-MUA- X 32.768kHz crystal 9pF load	NX3215SA
			30534105995R01				X201		Piece	1	Xtal 4 Pin	48MHz	10ppm	10ppm	NX2016SA 48MHZ XTAL	NX2016SA
			30534094R01				X300		Piece	1	Xtal 4 Pin	24MHz	15ppm	15ppm	24MHz NX2016SA Crystal	NX2016SA
			30534094R01				X400		Piece	1	Xtal 4 Pin	24MHz	15ppm	15ppm	24MHz NX2016SA Crystal	NX2016SA
SIDE 2									Piece	1	PCB ASSEMBLY PRO1 POPULATED					
				RXLSMT20	30543012		Misc702		Grams	0.043					Solder Paste LF318	
			30548005				C201		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			30507002R01				C204		Piece	1	Capacitor	22µF	20	20	0805 10V 22uF ±20% Capacitor	0805_CAP
			30596013				C210		Piece	1	Capacitor	1µF	10	10	1uF 0603 +/-10pc X5R 10V	0603_CAP
			30548005				C300		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			30546002				C301		Piece	1	Capacitor	220pF	5	5	0402 Capacitor 220pF +/-5% C0G	0402_CAP
			30548001				C302		Piece	1	Capacitor	4.7nF	10	10	0402 Capacitor 4.7nF +/-10% X7R	0402_CAP
			0603_CAP_NF				C303		Piece	1	Capacitor	NF			NF	0603_CAP_NF
			30542001R01				C304		Piece	1	Capacitor	470nF	10	10	0402 10V X7S 470nF ± 20% Cap	0402_CAP
			30548005				C400		Piece	1	Capacitor	100nF	10	10	0402 X7R CAPACITOR 100NF +/-10% 16V	0402_CAP
			30546002				C401		Piece	1	Capacitor	220pF	5	5	0402 Capacitor 220pF +/-5% C0G	0402_CAP
			30548001				C402		Piece	1	Capacitor	4.7nF	10	10	0402 Capacitor 4.7nF +/-10% X7R	0402_CAP
			0603_CAP_NF				C403		Piece	1	Capacitor	NF				0603_CAP_NF
			30542001R01				C404		Piece	1	Capacitor	470nF	10	10	0402 10V X7S 470nF ± 20% Cap	0402_CAP
			0402_CAP_NF				C600		Piece	1	Capacitor	NF				0402_CAP_NF
			0402_CAP_NF				C603		Piece	1	Capacitor	NF				0402_CAP_NF
			30547004				C701		Piece	1	Capacitor	10nF	5	5	0402 50V X7R 10nF +/-5% Cap	0402_CAP
			30547004				C809		Piece	1	Capacitor	10nF	5	5	0402 50V X7R 10nF +/-5% Cap	0402_CAP
			0805_CAP_NF				C810		Piece	1	Capacitor	NF				0805_CAP_NF
			1206_CAP_NF				C812		Piece	1	Capacitor	NF				1206_CAP_NF
			30551106814R01				D701		Piece	1	Diode Schottky				NEXPERIA PMEG2002AESF LOW VF SCHOTTKY BARRIER RECTIFIER	SOD962-2
			30551106814R01				D702		Piece	1	Diode Schottky				NEXPERIA PMEG2002AESF LOW VF SCHOTTKY BARRIER RECTIFIER	SOD962-2
			0402_RES_NF				R300		Piece	1	Resistor	NF				0402_RES_NF
			30514001				R301		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30514001				R302		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30514001				R303		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			0402_RES_NF				R304		Piece	1	Resistor	NF				0402_RES_NF
			0402_RES_NF				R400		Piece	1	Resistor	NF				0402_RES_NF
			30514001				R401		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30514001				R402		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30514001				R403		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			0402_RES_NF				R404		Piece	1	Resistor	NF				0402_RES_NF
			30515022				R701		Piece	1	Resistor	10R	5	5	10R 0402 +/-5% Resistor	0402_RES
			30515021				R703		Piece	1	Resistor	10K	5	5	0402 10K +/-5% Resistor Rohm	0402_RES
			30515021				R704		Piece	1	Resistor	10K	5	5	0402 10K +/-5% Resistor Rohm	0402_RES
			30515001				R801		Piece	1	Resistor	100K	5	5	0402 Resistor 100K +/-5pc	0402_RES
			30515001				R802		Piece	1	Resistor	100K	5	5	0402 Resistor 100K +/-5pc	0402_RES
			30515001				R809		Piece	1	Resistor	100K	5	5	0402 Resistor 100K +/-5pc	0402_RES
			30515001				R811		Piece	1	Resistor	100K	5	5	0402 Resistor 100K +/-5pc	0402_RES
			30514001				R816		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30514001				R818		Piece	1	Resistor	0R			0402 0R Resistor	0402_RES
			30513014				R820		Piece	1	Resistor	0R	5	5	0805 Resistor OR	0805_RES
			30554106759R01				T800		Piece	1	Transistor	DMC2990UDJQ			DIODES INC DMC2990UDJQ COMPLEMENTARY PAIR ENHANCEMENT MOSFET	SOT963
			30554106759R01				T801		Piece	1	Transistor	DMC2990UDJQ			DIODES INC DMC2990UDJQ COMPLEMENTARY PAIR ENHANCEMENT MOSFET	SOT963
			30554106759R01				T802		Piece	1	Transistor	DMC2990UDJQ			DIODES INC DMC2990UDJQ COMPLEMENTARY PAIR ENHANCEMENT MOSFET	SOT963
			30531106766R01				U300		Piece	1	ASIC	SSSM799AI1			ED G6 HENDRICKSON WES SSSM799AI1 AVE 3P2T SMI (150PSI) 433MHZ 0X2E00	QFN65P700X550X195-34
			30531106766R01				U400		Piece	1	ASIC	SSSM799AI1			ED G6 HENDRICKSON WES SSSM799AI1 AVE 3P2T SMI (150PSI) 433MHZ 0X2E00	QFN65P700X550X195-34

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