

SPECIFICATIONS

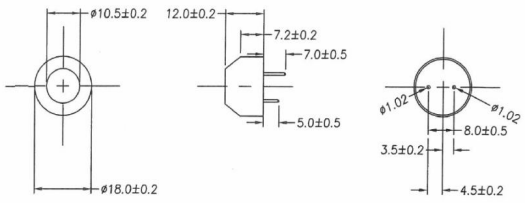
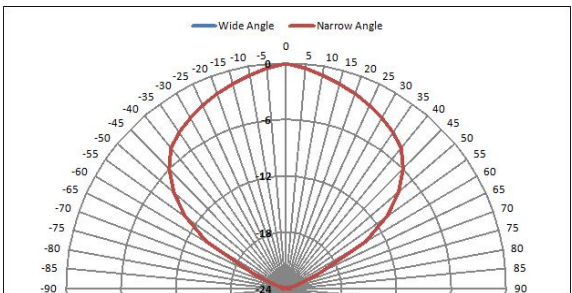
ULTRASONIC TRANSDUCER

ST-S203L-N

Prepared	Check	Approved

Issued Date	2010/1/15	Revision Date	2013/9/1
Supplier	SensorTec	Customer	SPCO
Classification	Automotive	Status	Mass Production
Application			

Parking Sensor, RV, Truck, etc

Dimension	Directivity (Typ.)
	

Item	Min	Typ	Max	Unit	Description
Operating Frequency	39	40	41	kHz	
Detectable Range	0.3		2.0	m	
Sound Pressure Level	108			dB	
Receiving Sensitivity	-82			dB	
Directivity	80	90	100	Deg	-6dB down angle from front side 0/S
Capacitance	1840	2300	2760	pF	@1kHz
Insulation Resistance	100			MΩ	@100V DC
Maximum Input Voltage	100			Vp-p	@0.25ms on/60ms off
Operating Temperature	-30		80	℃	
Storage Temperature	-30		80	℃	

Note	
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ULTRASONIC TRANSDUCER

ST-206W-T2

Prepared	Check	Approved

Issued Date	2010/1/15	Revision Date	2013/9/1
Supplier	SensorTec	Customer	
Classification	Inderstrial	Status	Mass Production
Application			

Long Range Distance Sensor

Dimension	Directivity (Typ.)

Item	Min	Typ	Max	Unit	Description
Operating Frequency	39	40	41	kHz	
Detectable Range	0.3		5.0	m	
Sound Pressure Level	115			dB	
Receiving Sensitivity	-72			dB	
Directivity	15	25	35	Deg	-6dB down angle from front side 0/S
Capacitance	3360	4200	5040	pF	@1kHz
Insulation Resistance	100			MΩ	@100V DC
Maximum Input Voltage	100			Vp-p	@0.25ms on/60ms off
Operating Temperature	-30		80	℃	
Storage Temperature	-30		80	℃	

Note					
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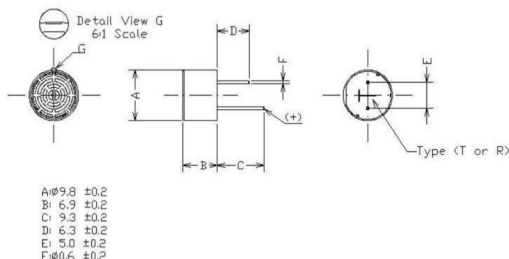
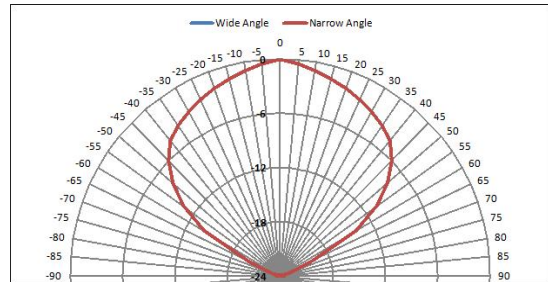
ULTRASONIC TRANSDUCER

ST-502P-T/R

Prepared	Check	Approved

Issued Date	2011/4/25	Revision Date	2013/9/1
Supplier	SensorTec	Customer	LGE
Classification	Robot, IoT	Status	Mass Production
Application			

Clean-up Robot, Self-driving

Dimension	Directivity (Typ.)
 A: 9.8 ± 0.2 B: 6.3 ± 0.2 C: 9.3 ± 0.2 D: 6.3 ± 0.2 E: 5.0 ± 0.2 F: 0.6 ± 0.2	

Item	Min	Typ	Max	Unit	Description
Operating Frequency	39	40	41	kHz	
Detectable Range	0.3		2.0	m	
Sound Pressure Level (TX)	112			dB	
Receiving Sensitivity (RX)	-72			dB	
Directivity	80	90	100	Deg	-6dB down angle from front side O/S
Capacitance	1680	2100	2520	pF	@1kHz
Insulation Resistance	100			MΩ	@100V DC
Maximum Input Voltage	100			Vp-p	@0.25ms on/60ms off
Operating Temperature	-30		80	°C	
Storage Temperature	-30		80	°C	

Note



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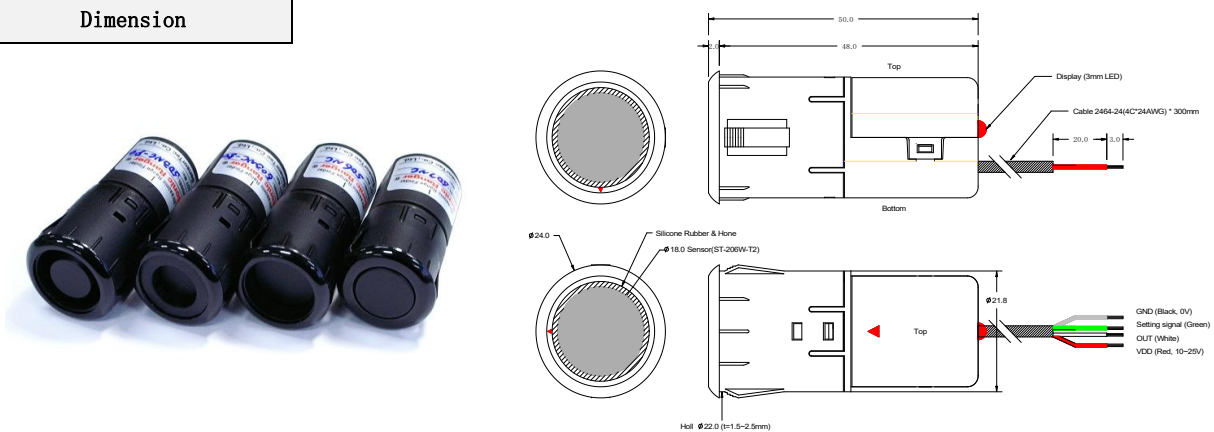
ULTRASONIC SENSOR MODULE (ACTIVE)

STMA-506

Prepared	Check	Approved

Issued Date	2005/7/14	Revision Date	2008/2/22
Supplier	SENSORTEC	Customer	Geneal Purpose
Classification	Industrial	Status	Mass Production
Applications	▷Range-finding ▷Measure of distance ▷Object detection ▷Human Body detection Industrial Control Units, Car detecting for Smart Parking Lot, Obstruction Sensor for Autonomous Mobile Robots Human Proximity Sensing for Guidance Robots, Object Detecting for Factory Automation, Level Meter, Anti-collision sensor for AGV System, Water Surface Measurement, Moving Object Counter & ETC.		

Dimension



Item	Min	Typ	Max	Unit	Description
Operating Voltage	10	12	16	V	
Current Consumption			30.0	mA	
Detectable Range	0.3	-	5.0	m	STMA-P506NC3 : 8m Max
Operating Frequency	39.0	40.0	41.0	kHz	
Directivity	15	25	35	Deg	
Output	NC : Open Collector, ND : UART RS-232 TTL Level, NT : Trigger				
Operating Temperature	-25	-	70	°C	
Storage Temperature	-40	-	85	°C	
Note					