

# SPECIFICATIONS

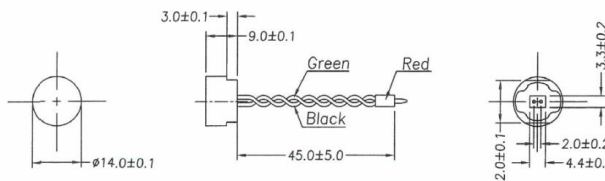
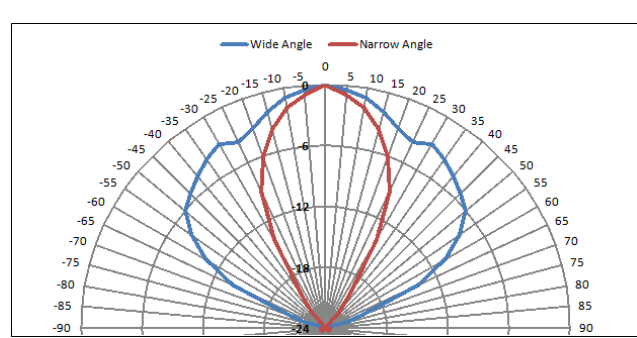
## ULTRASONIC TRANSDUCER

# ST-208W-T3

Prepared	Check	Approved

Issued Date		Revision Date	
Supplier	SensorTec	Customer	
Classification		Status	Mass Production
Application			

Front & Rear Parking Aid

Dimension	Directivity (Typ.)
 <p>Technical drawing of the ultrasonic transducer showing dimensions and color coding. The drawing includes a top view with a diameter of <math>\phi 14.0 \pm 0.1</math> and a side view with dimensions: <math>3.0 \pm 0.1</math>, <math>9.0 \pm 0.1</math>, <math>45.0 \pm 5.0</math>, <math>12.0 \pm 0.1</math>, <math>2.0 \pm 0.2</math>, <math>4.4 \pm 0.2</math>, and <math>3.3 \pm 0.2</math>. The drawing also shows color coding: Green, Red, and Black.</p>	 <p>Directivity diagram showing Wide Angle (blue line) and Narrow Angle (red line) patterns. The diagram is a polar plot with angles from 0 to 90 degrees. The Wide Angle pattern has a peak at 0 degrees and a -6dB down angle at approximately 60 degrees. The Narrow Angle pattern has a peak at 0 degrees and a -6dB down angle at approximately 30 degrees.</p>

Item		Min	Typ	Max	Unit	Description
Operating Frequency		47	48	49	kHz	
Detectable Range		0.3		2.0	m	
Sound Pressure Level		103			dB	
Receiving Sensitivity		-84			dB	
Directivity	Wide	90	100	110	Deg	-6dB down angle from front side O/S
	Narrow	30	40	50		
Capacitance		3780	4500	5220	pF	@1kHz
Insulation Resistance		100			MΩ	@100V DC
Maximum Input Voltage		100			Vp-p	@0.25ms on/60ms off
Operating Temperature		-30		85	°C	
Storage Temperature		-40		85	°C	

### Note