



Rev	Zone	Description	ENG	Approved	Date

Electrical Properties	
Frequency Range	GPS:1575.42±5 MHz GSM:850/900 /1800/1900 MHz
Impedance	50Ω
V.S.W.R.	≤2.0
Polarization	RHCP
Antenna Gain	3.5 dBiC typ (for ground 70* 70 mm) -1.0dBi@850MHz 1.0dBi@900MHz 1.0dBi@1800MHz 0dBi@1900MHz
LNA Gain	28dB typ
Noise Figure	1.5dB max
Filter Rejection	27dBmin @±30MHz 38dBmin @±50MHz
Operating Voltage	3.0~5.5 V
Consumption Current	8mA typ
Mechanical Properties	
Whip	PC
Connector	BRASS
Weight	158g (est.)
Operating Temperature	-40C~+85°C

GSM Cable :Lable Color-Blue  
Heat Shirnk Color-Black  
GPS Cable :Lable Color-Green  
Heat Shirnk Color-Red

UNLESS OTHERWISE SPECIFIED TOLERANCES ON:  
X ± 1  
X.X ± 0.5  
X.XX ± 0.25  
ANG. ± 2.0°

THIRD ANGLE PROJECTION

DRAWN BY: KYLIU  
DESIGNED BY:  
CHECKED BY:  
APPOVED BY:

MATERIAL:  
FINISH:  
SCALE: 1/1UNIT:mm  
DATE: 2010/9/27  
REV: A

TITLE : #5423 Active Antenna  
DRAW NO. :  
PART NO. : PPF-5423SA5X-999  
**JOYMAX ELECTRONICS CO.,LTD.**