

Description: 26dBi GNSS Antenna Adhesive mount, SMA

Series: GNSS Active Antenna

PART NUMBER: GNSSCGMSMA



Features:

- Frequency 1559-1610MHz
- LNA Gain 26dB
- Current consumption 9mA
- High rejection filters
- Cable 5m RG-174, SMA-Male
- IP65
- Mounting with adhesive tape

Applications:

- GPS, GLONASS, BeiDou, Compass, Galileo satellite navigation system
- Asset tracking, Fleet management, IoT, M2M
- Satellite navigation active antenna

All dimensions are in mm / inches

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ELECTRICAL SPECIFICATIONS

Antenna Radiator Type	Ceramic chip
Frequency	1559-1610MHz
Nominal Impedance	50 Ω
VSWR**	2.5:1
Radiation Pattern	Omni
Gain*	-2 / -1.5 / -2.5dBi
Efficiency*	35 / 40 / 35%
Polarization	Linear / Vertical
LNA gain	26 dB $\pm$ 2 dB
Noise Figure	2.5 (cascade) dB
Current	9 mA $\pm$ 2 mA
Vdc	3-5Vdc
LNA and filter attenuation	
	@1500MHz 0dB
	@1640MHz 0dB
Filter attenuation	
	10-925MHz 50dB
	1427-1463MHz 32dB
	1710-1980MHz 40dB
	2400-2570MHz 30dB
	2570-3000MHz 27dB

* Measured with 4 inch cables

** Measured with 3 feet cables

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MECHANICAL SPECIFICATIONS

Antenna size	53 x 29.9 x 6.6mm
Weight	85.3g
Antenna Color / Material	PC+ABS/Black
Connector type	SMA-Male
Cable type	RG-174
Cable length	5000mm

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 ~ 85° C
Storage Temperature	-40 ~ 85° C
Ingress Protection	IP65
RoHS Compliant	Yes

ASSEMBLY METHOD

Mounting with Adhesive tape.

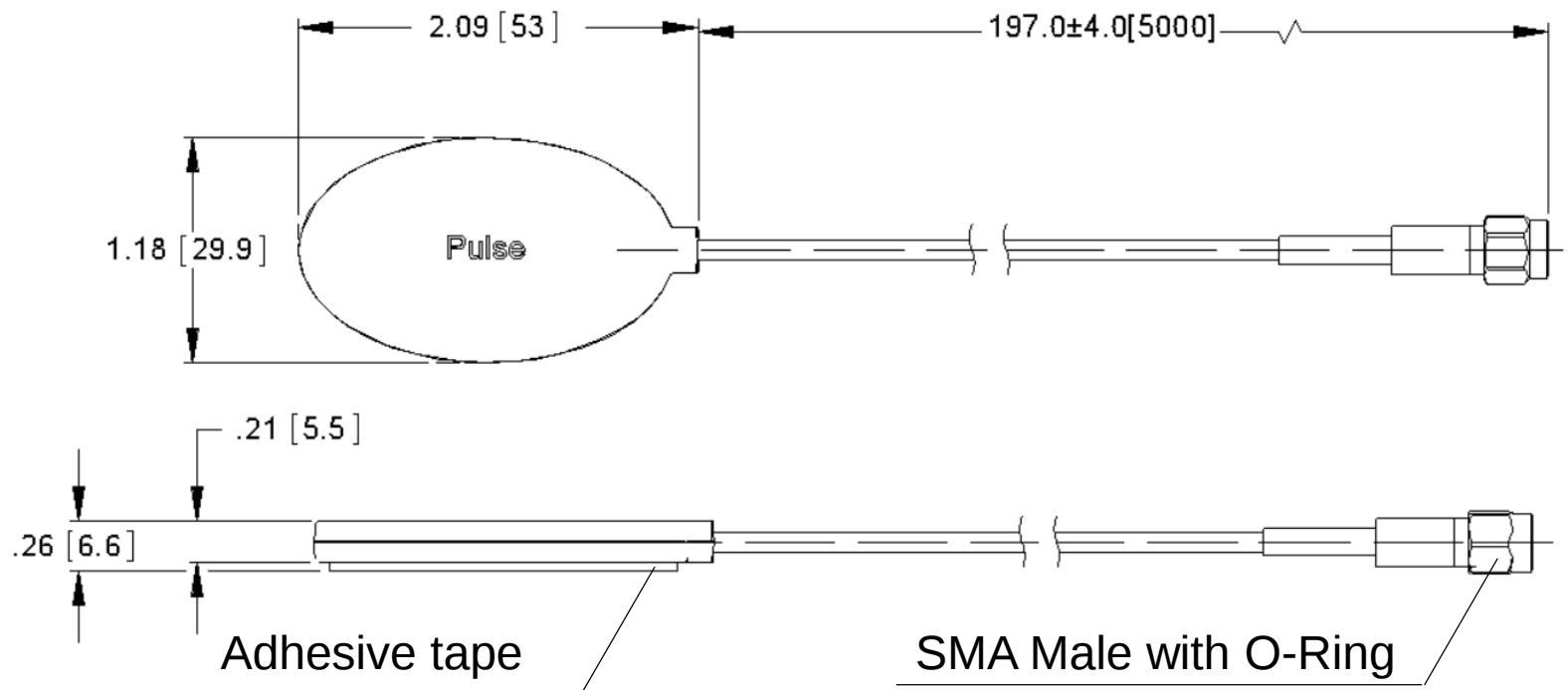
Tape is provided with antenna as separate piece.

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MECHANICAL DRAWING



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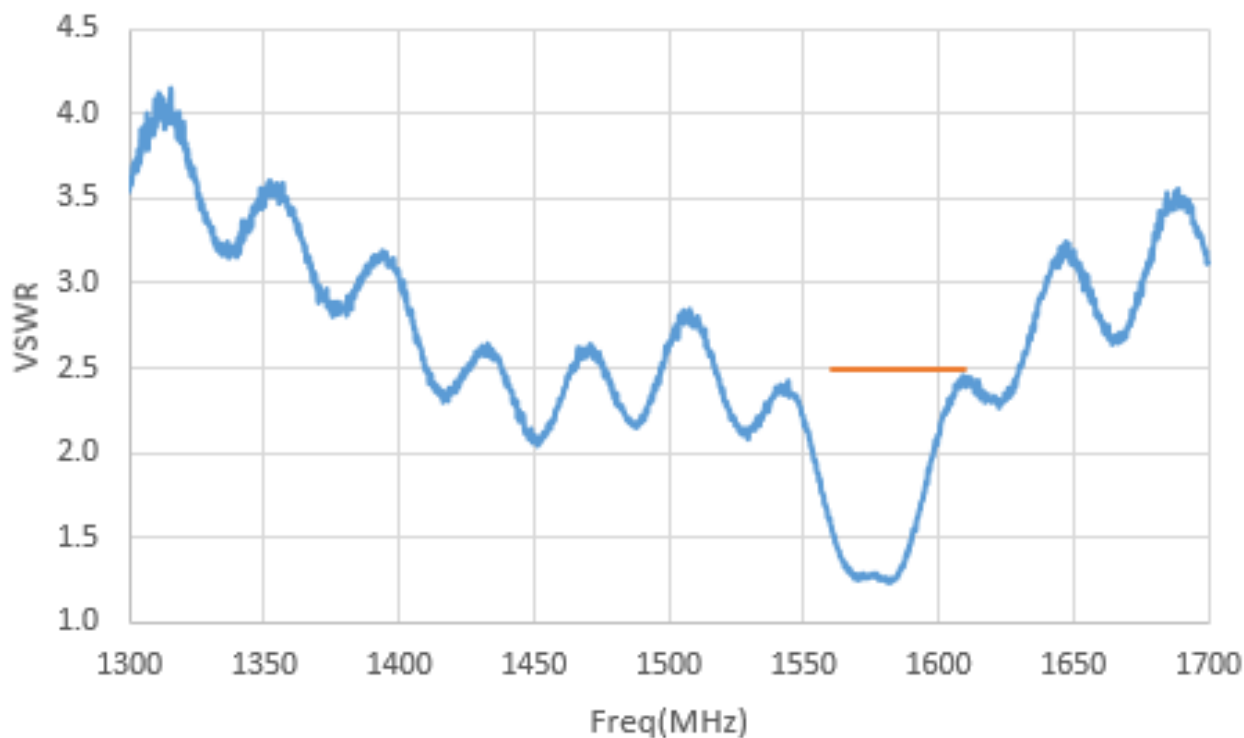
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CHARTS

VSWR vs Frequency



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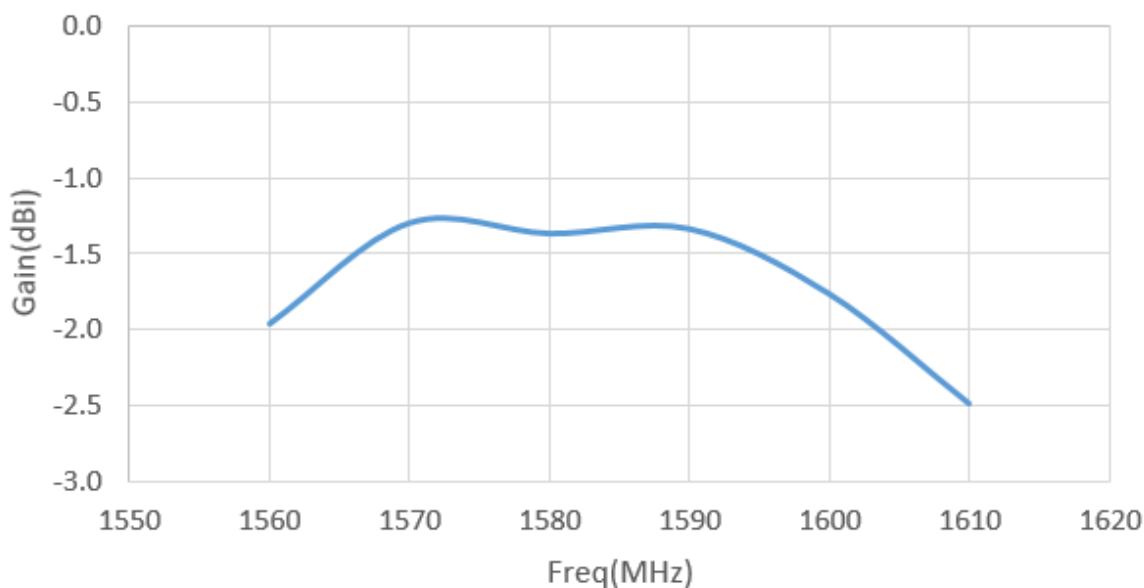
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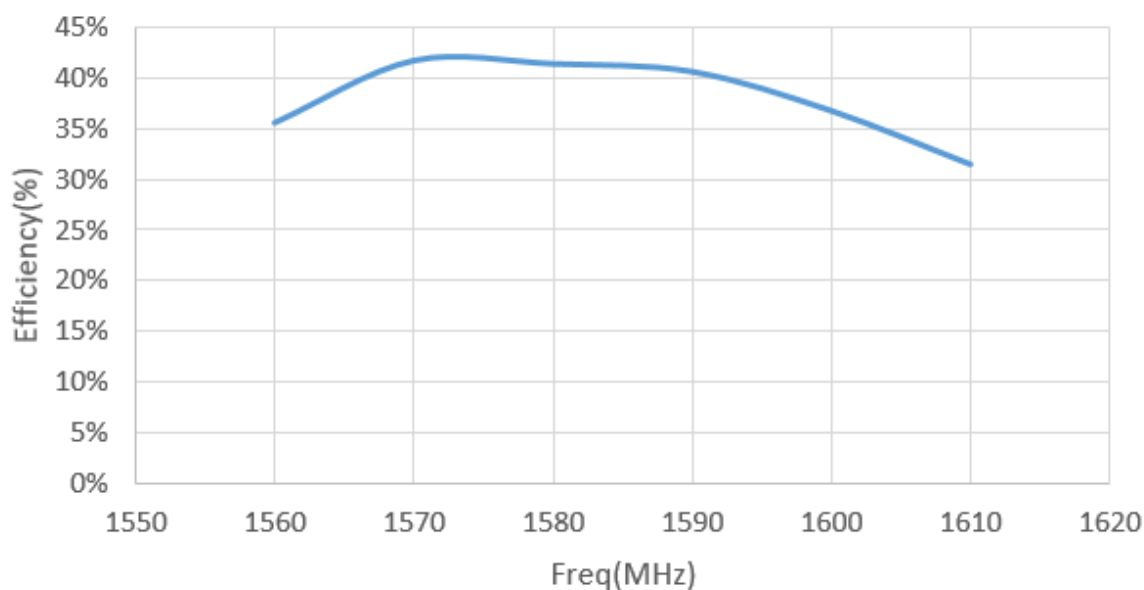
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CHARTS

Antenna element Peak Gain (Without LNA)



Antenna element Radiation Efficiency (Without LNA)



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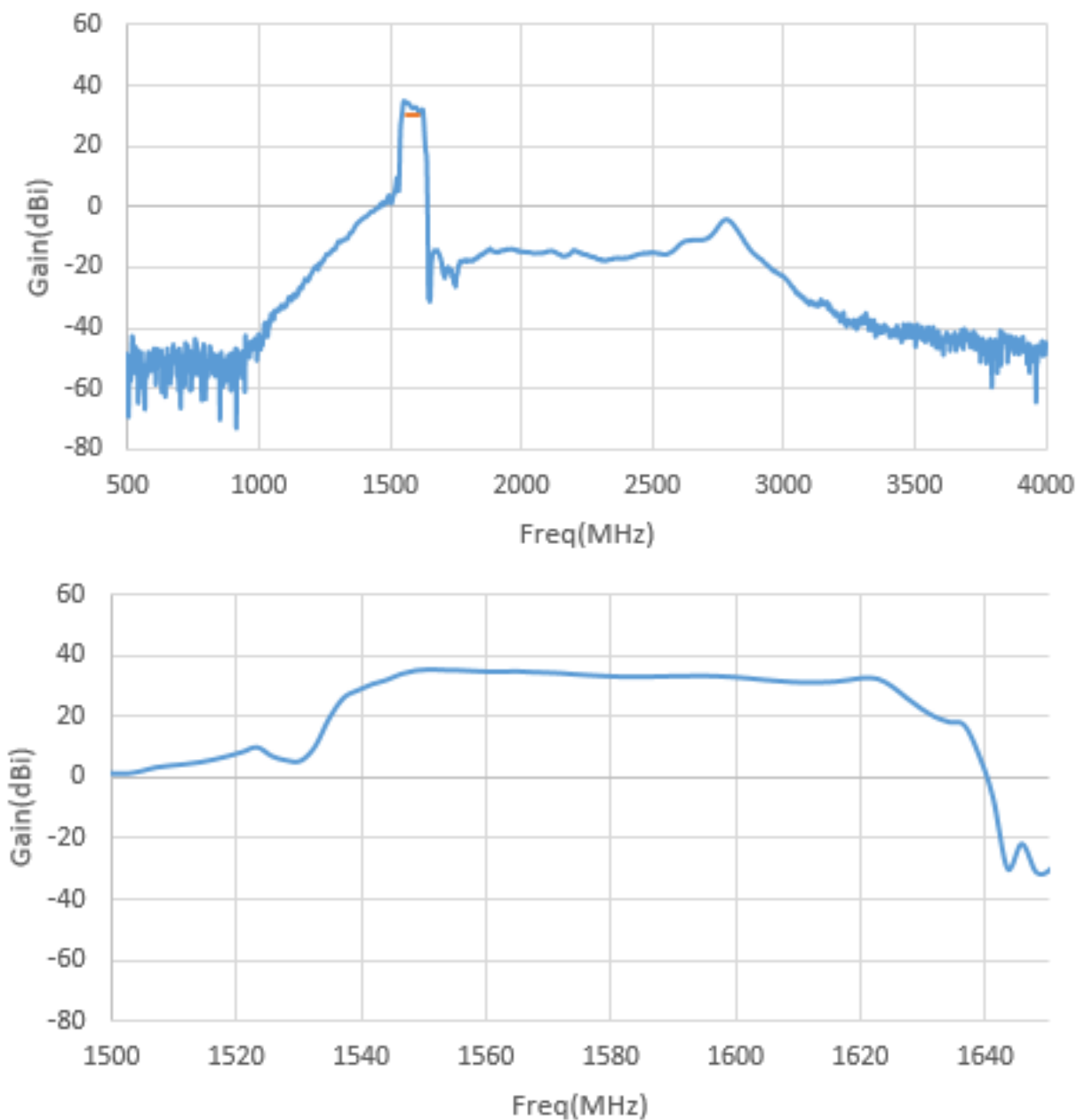
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CHARTS

LNA Gain and out-of-band rejection



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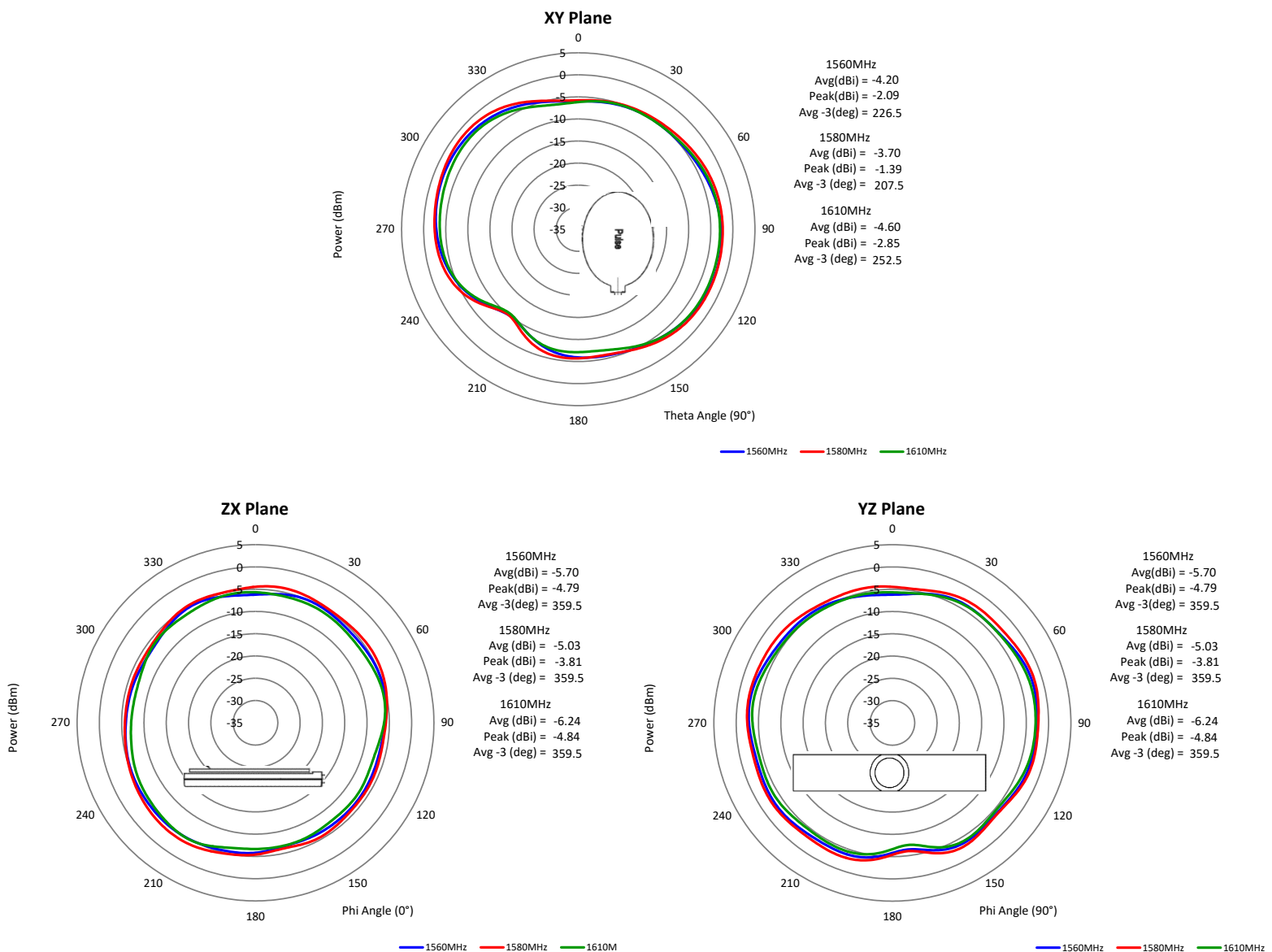
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CHARTS

Radiation Pattern 2D, Antenna element without LNA



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PACKAGING

1pcs/ PE bag
50pcs/ Box

Mouser Electronics

Authorized Distributor

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Pulse:

GNSSCGMSMA