

MAN0850C260

5G/GSM/CDMA/LTE Chip Antenna



Applications

1. 5G, WCDMA, GSM & LTE Device
2. WiFi Dongle
3. 5G CPE

Features

1. Compact size
2. Omni-directional radiation.
3. Tape & reel automatic mounting
4. RoHS compliance (Pb-Free)



Description

The MAN0850C260 is designed for superior performance, and can be widely used for wireless applications. We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

Electrical Specification

Table 1. MAN0850C260 Electrical Specification

Item	Low Freq	Mid Freq	High Freq	Unit
Frequency Range	824-960	1710-2690	3300-5000	MHz
Efficiency	13-27	18-69	26-66	%
Peak Gain	-0.33	2.33	3.67	dBi
Polarization	Linear	Linear	Linear	
Nominal Impedance	50	50	50	Ω

Mechanical Specifications

Table 2. MAN0850C260 Mechanical Specification

Item	Min.	Type.@25°C	Max.	Unit
Antenna Size		26*1.6* 5		Mm
Temperature	-40		+80	°C
Operating temperature	-40		+80	°C

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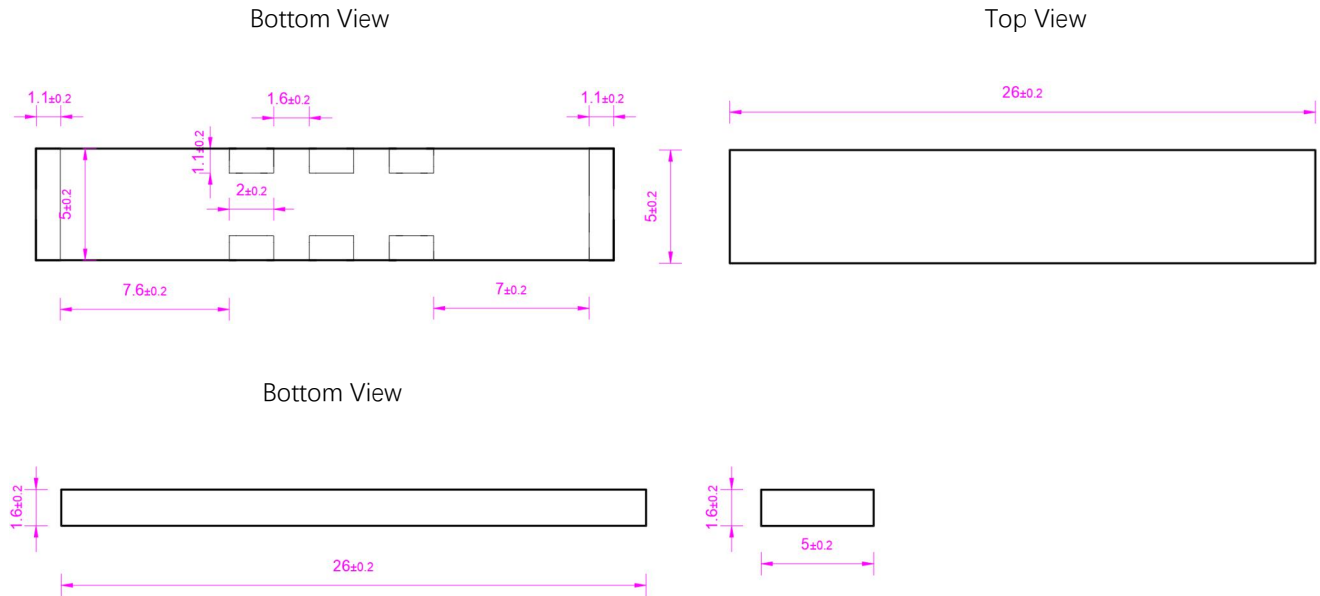
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Outline Drawing

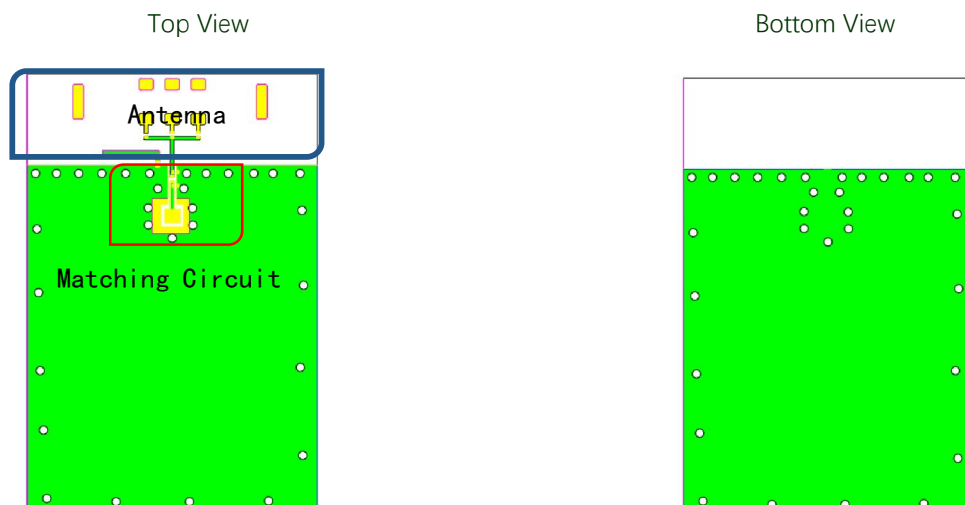
Figure 1. MAN0850C260 View (Unit: mm)



Unit: mm

Recommend PCB Layout

Figure 2. MAN0850C260 PCB Layout 60*40mm



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Figure 3.MAN0850C260 Antenna Layout (Unit: mm)

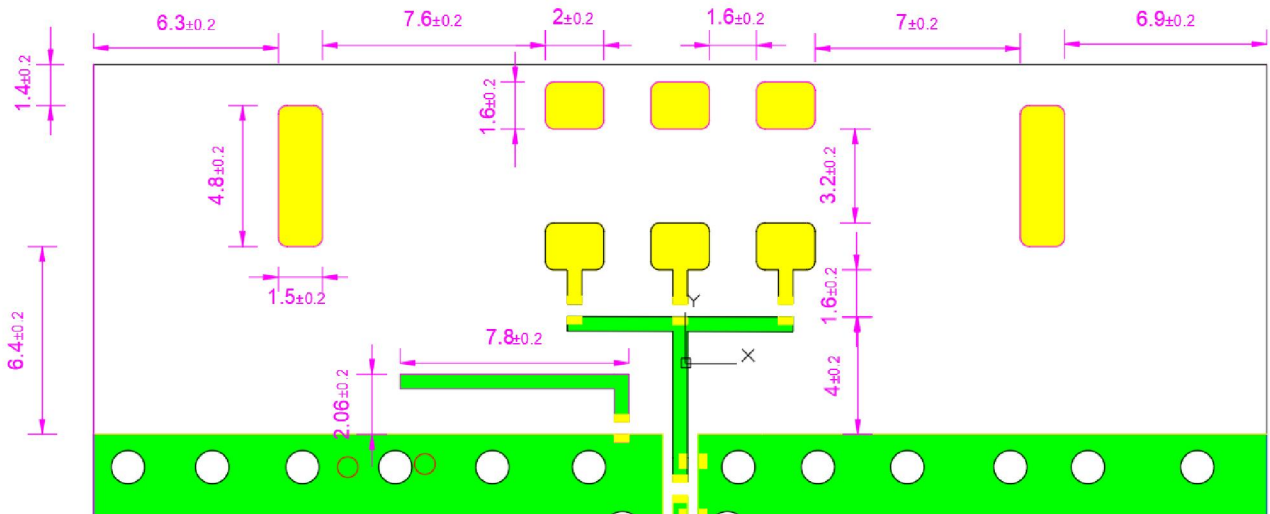
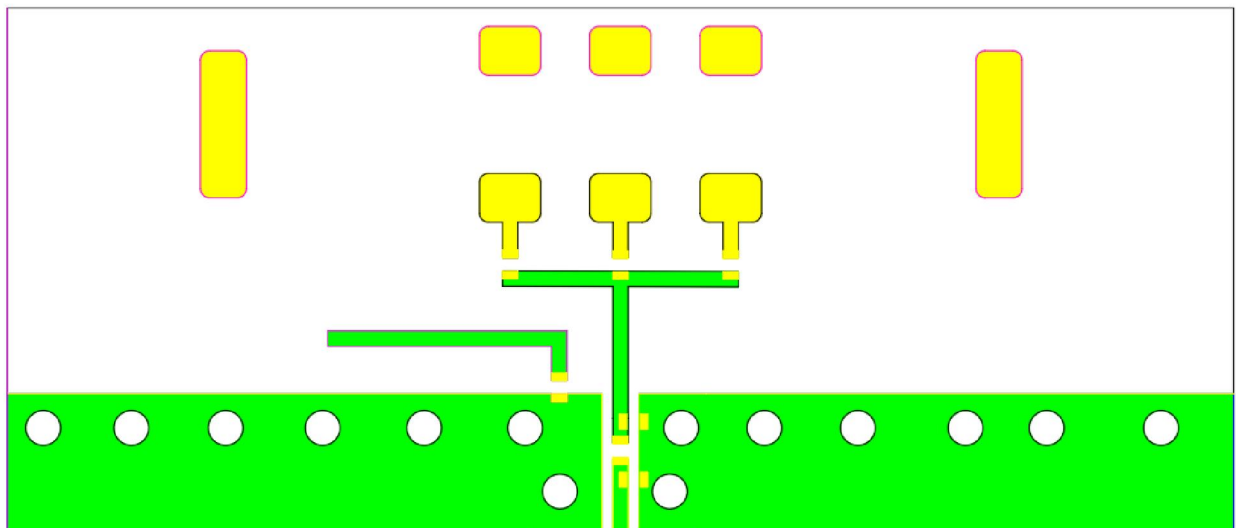


Figure 4. MAN0850C260 Foot Print (Unit: mm)



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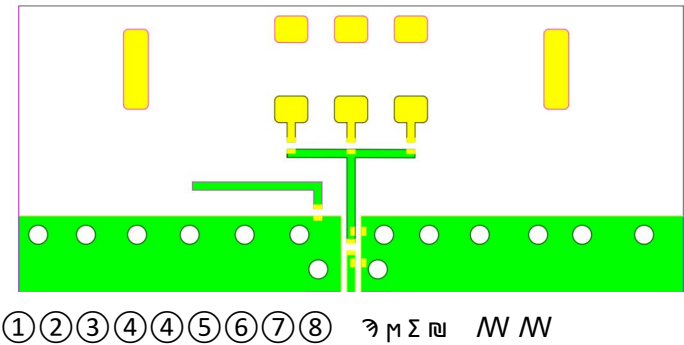
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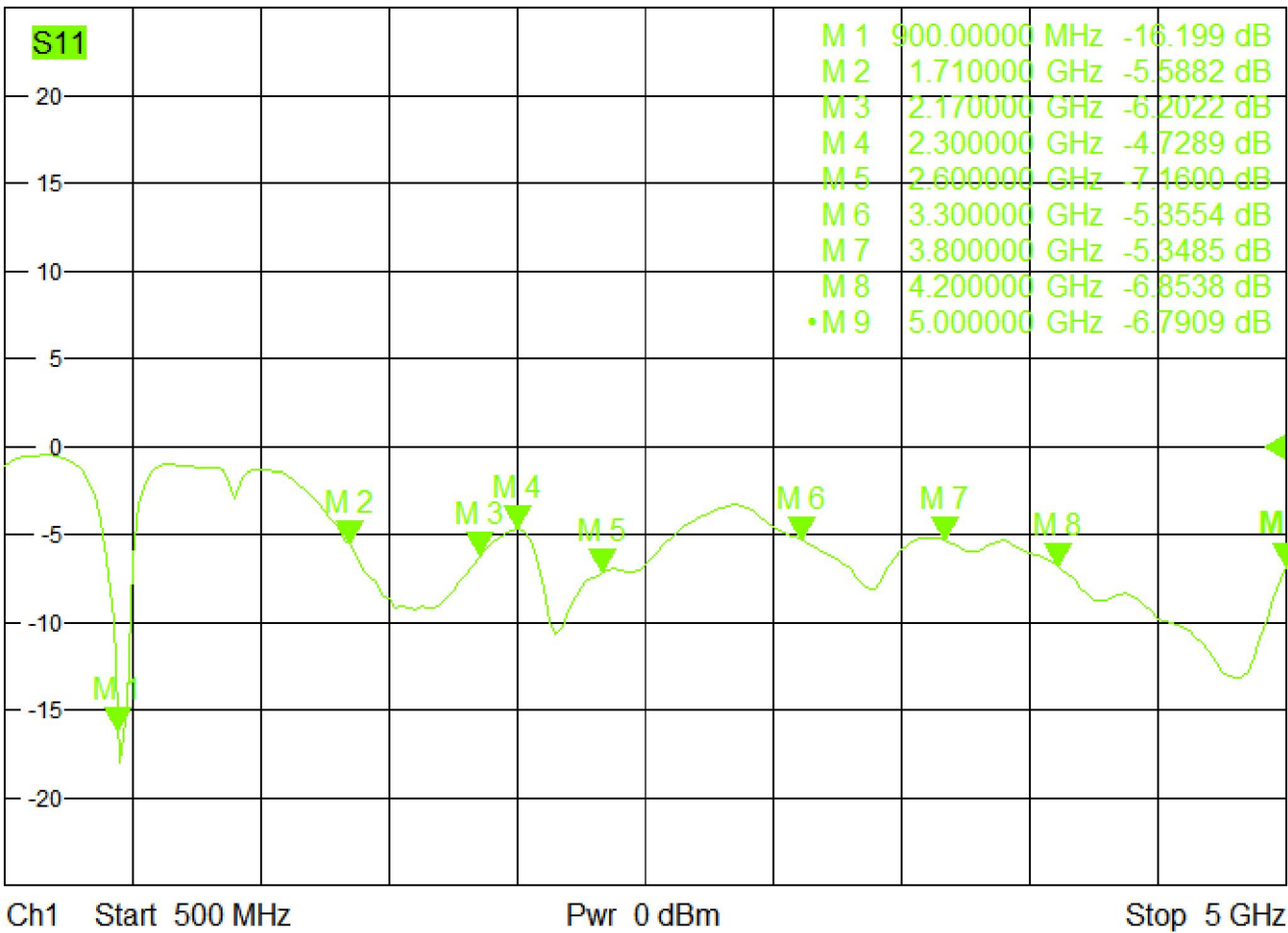
Typical Performance

Figure 5. MAN0850C260 Matching Circuit



Location	Description	Vendor
1	18nH	MURATA
2	0Ω	MURATA
3	2.0nH	MURATA
4	0Ω	MURATA
5	N/C	/
6	0Ω	MURATA
7	N/C	/

Figure 6. MAN0850C260 Return Loss



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Radiation Pattern& Efficiency&Peak Gain

Figure 7. MAN0850C260 Gain pattern is measured in FAR-field chamber

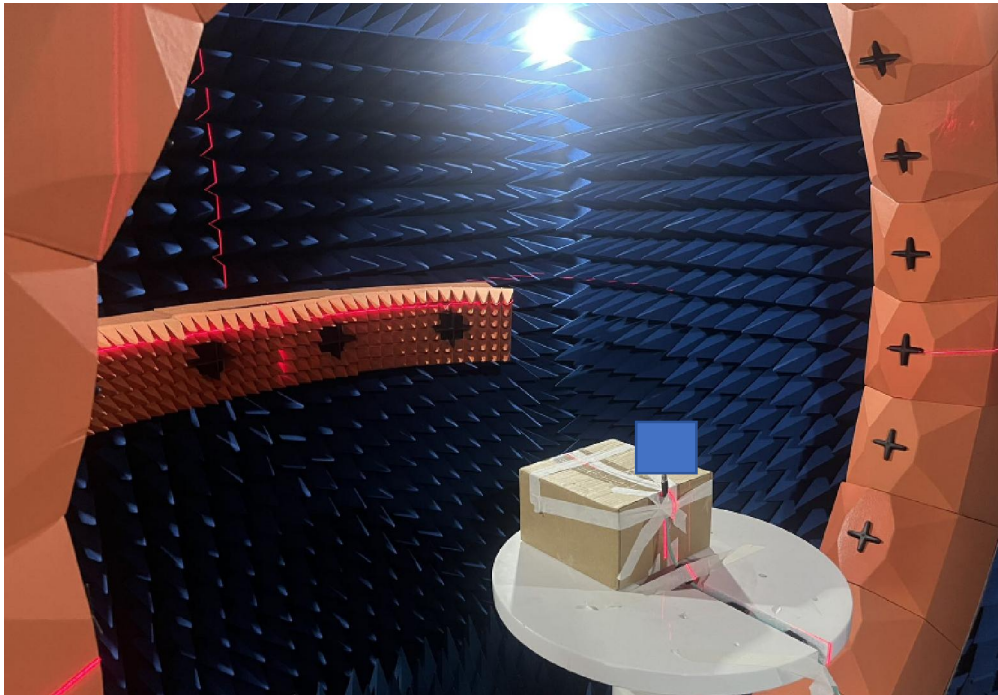
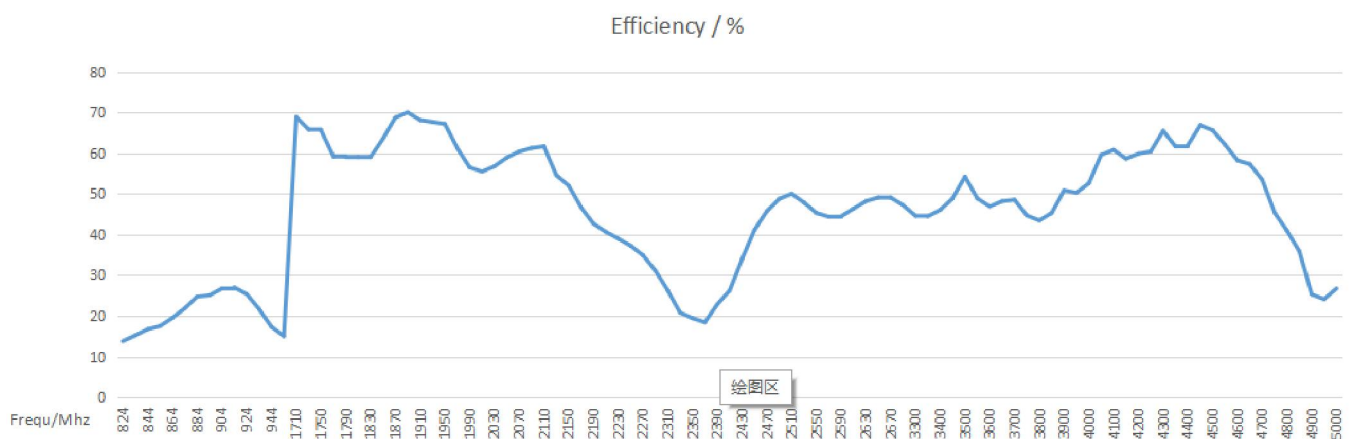


Figure 8. Radiation Efficiency&Peak Gain



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Freq	Efficiency	Peak Gain	Freq	Efficiency	Peak Gain	Freq	Efficiency	Peak Gain
824	13.8	-2.04	1710	68.87	2.19	2690	47.21	2.32
844	16.74	-1.55	1830	59.02	1.73	3300	44.57	3.15
864	19.52	-0.99	1910	68.09	2.33	3500	54.2	3.58
884	24.74	-0.74	2010	55.46	1.17	3800	43.45	2.18
904	26.75	-0.51	2110	61.66	1.05	4200	59.84	3.46
914	27.02	-0.33	2170	46.67	0.3	4400	61.94	3.61
924	25.35	-0.63	2310	26.24	0.24	4600	58.21	3
944	17.33	-1.35	2410	26.24	0.17	4800	40.93	1.61
954	15.05	-1.88	2490	48.75	1.61	5000	26.74	-2.55

*Antenna performance will also change in different environments, it is recommended to consult the relevant technical personnel before use to confirm the layout to ensure good performance.

Packaging and Ordering Information

Table 3. MAN0850C260 Packaging Information

Device	Package	Reel	Shipping
MAN0850C260	26*5mm	7"	3000 Reel

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Revision	Description	Date
Rev0	Preliminary	2022/8/5

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