

socionext™

for better quality of experience

■ **Simulated antenna radiation pattern**

- **SC1232AR3**
- SC1233AR3

SC1232AR3: Simulated antenna radiation pattern

■ $\epsilon_r=2.7$ (e.g. Lower relative permittivity acrylic plate)

(1) $W=1.5\text{mm}$ / $d=1\text{mm}$

Amount of relative TX& RX antenna gain is ranked

		Thickness of dielectric plate: W [mm]						
		1.0	1.5	2.0	3.0	4.0	5.0	6.0
Distance from PKG to dielectric plate: d [mm]	0	A	A	B	B	B	B	B
	1	A	B	B	B	A	A	B
	2	B	B	C (1)	B	A	B	C
	3	B	C	B	B	A	B	B
	4	B	B	B	A	A (4)	B	B
	5	B	A	A	A	A	A	A
	6	A	A	A (2)	A	A	A	A
	7	A	A	B	B	A	A	A
	8	B	B	B	B	A (5)	B	B
	9	B	B	B (3)	B	A	B	B
	10	B	B	B	A	A	B	B
	11	B	B	A	A	A	B	A
	12	A	A	A	A	A	A	A

A: > -1dB

B: > -6dB

C: $\geq$ -6dB

Antenna radiation pattern (SC1232AR3)

■ $\epsilon_r=2.7$, $W=1.5\text{mm}$, $d=1\text{mm}$

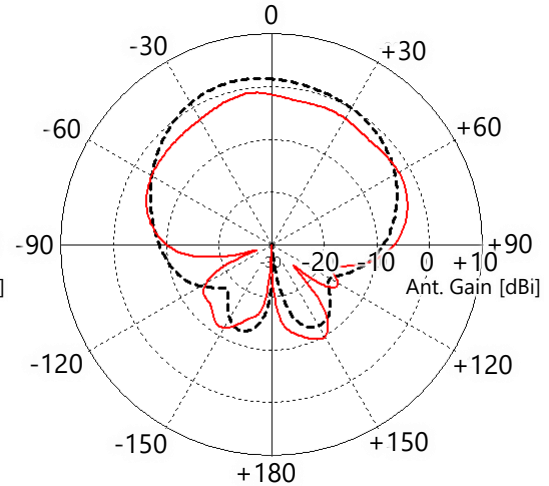
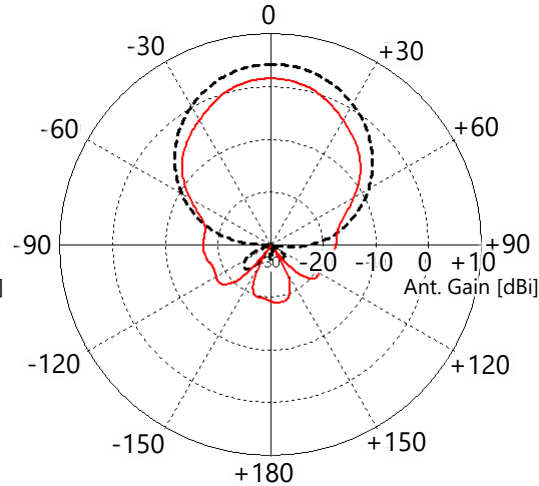
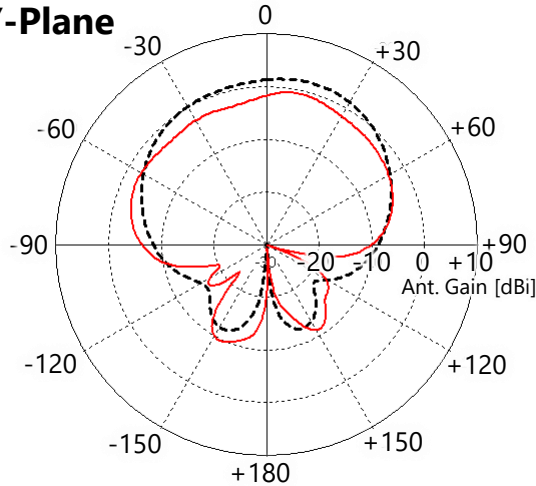
Maximum antenna gain: 2dBi

RX(Wide)

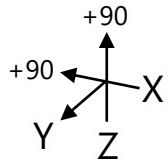
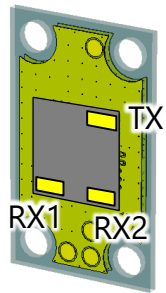
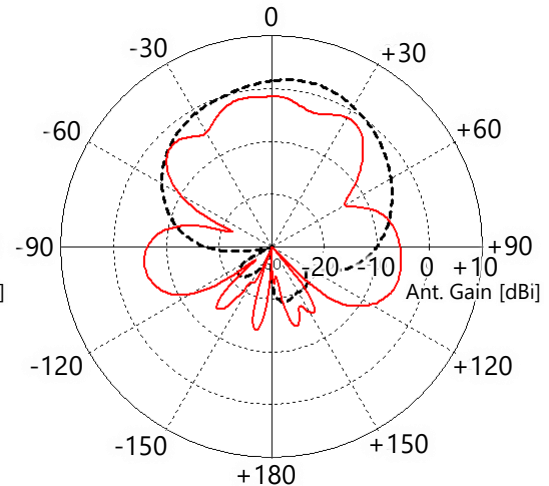
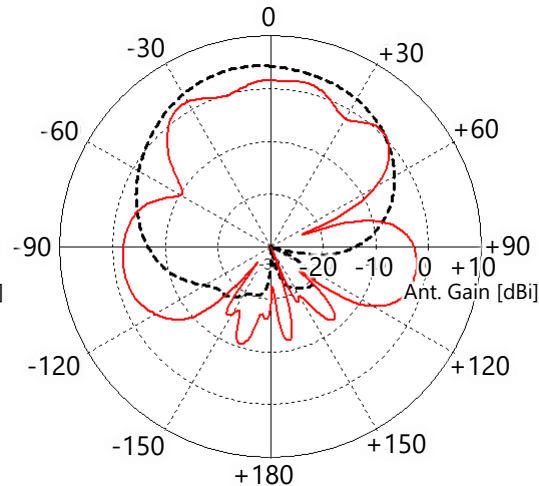
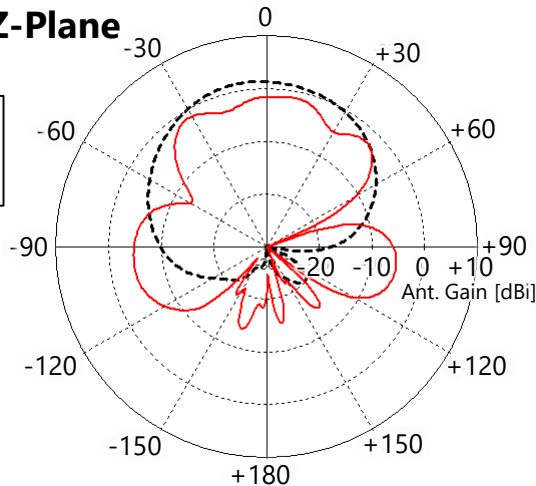
RX(Narrow)

TX

XY-Plane



YZ-Plane



--- w/o plate
— w/ plate