

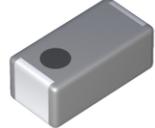
1608mm (0603inch) Monopole Antenna

TSA5N18D2G45NV001T

for 2.4GHz

Shapes

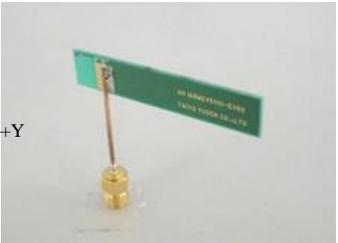
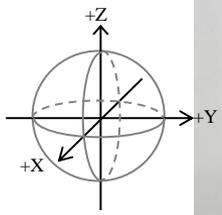
L = 1.6 ± 0.1 mm
 W = 0.8 ± 0.1 mm
 T = 0.65 mm Max



Feature

- Small size : 1608mm (0603inch)
- Low Profile : 0.65mm Max.
- Wide Bandwidth : 300MHz(VSWR<2)
- Hi Efficiency

Appearance and coordinates definition



* on TAIYO YUDEN's Evaluation Board (52 x 10 mm)

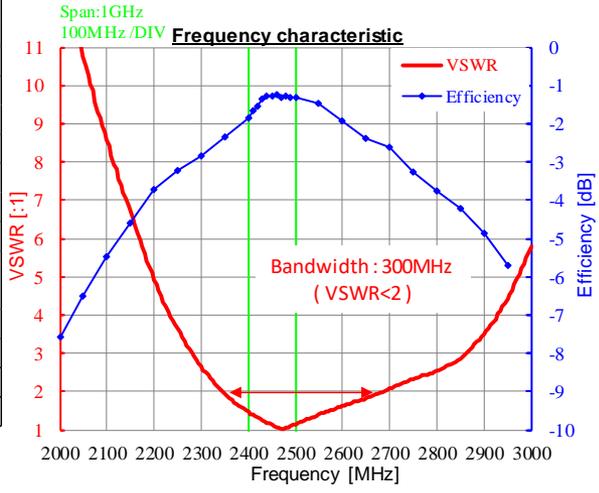
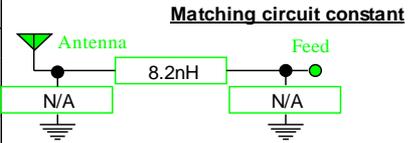
Measurement data of antenna

Frequency [MHz]		@2400	@2450	@2500
Peak gain				
	3-plane			
	TX-H	2.0	2.8	3.0
	TX-V	-0.2	-0.2	0.0
		2.0	2.8	3.0
Average gain				
	XY-plane			
	TX-H	-4.7	-4.2	-4.6
	TX-V	-6.4	-6.2	-6.4
	Plus(H,V)	-2.4	-2.1	-2.4
YZ-plane				
	TX-H	-3.0	-2.5	-2.4
	TX-V	-24.7	-22.6	-23.3
	Plus(H,V)	-2.9	-2.4	-2.4
ZX-plane				
	TX-H	-8.1	-7.3	-7.1
	TX-V	-1.5	-1.0	-1.0
	Plus(H,V)	-0.7	-0.1	-0.1
3-plane				
	TX-H	-4.8	-4.2	-4.3
	TX-V	-5.0	-4.6	-4.7
		-1.9	-1.4	-1.5
Efficiency [dB]		-1.8	-1.3	-1.3
VSWR [:1]		1.5	1.1	1.1

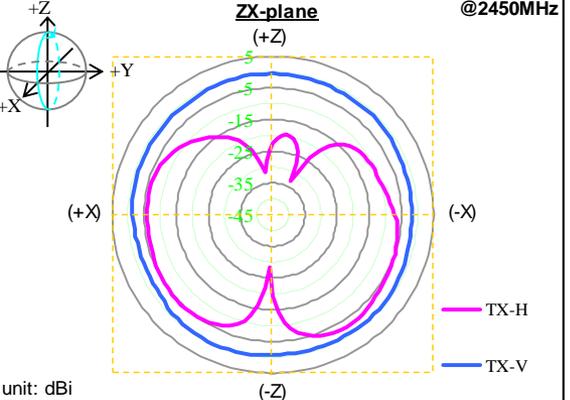
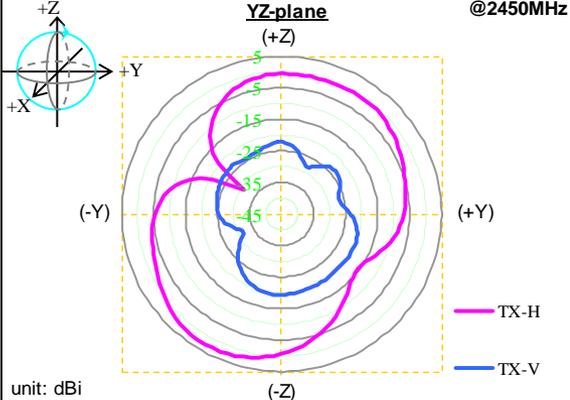
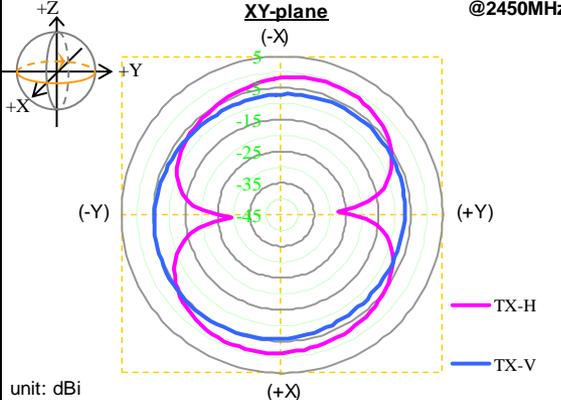
*Note: Peak gain(3-plane)=Peak(XY[H],XY[V],YZ[H])YZ[V],ZX[H])ZX[V])

*Note:The value is average value in 1 round of each inclination direction angle.

*Note: Average gain(3-plane)=Average(XY[Plus(H,V)],YZ[Plus(H,V)],ZX[Plus(H,V)])



Radiation pattern

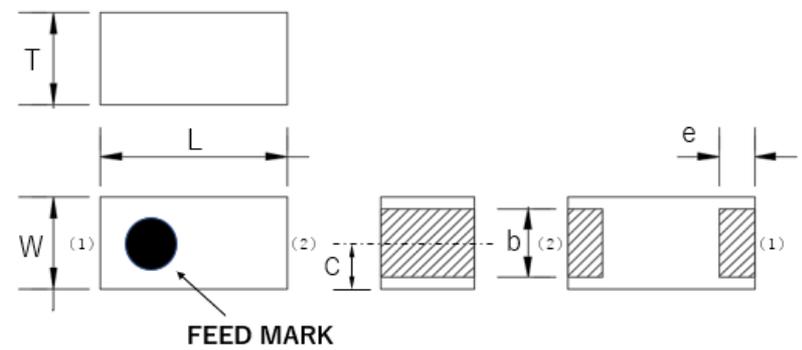


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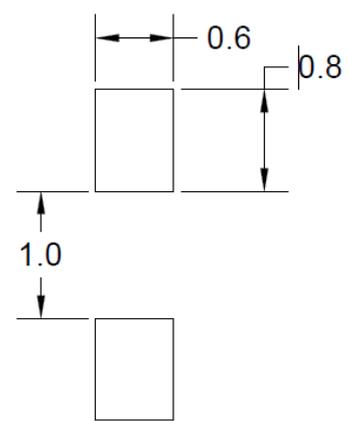
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External Dimensions



Example of Land Pattern



Unit : mm

Code	L	W	T	b	e	C
Size	1.6±0.1	0.8±0.1	0.65Max	0.6±0.1	0.3±0.1	0.4±0.1

Unit : mm