

TEENAGE ENGINEERING TP-7 AUDIO RECORDER
MODEL NO: TE025AS001 ANTENNA DATASHEET

AUTHOR: ANDERS GÄRDER

DATE: 2023-01-16, rev 2

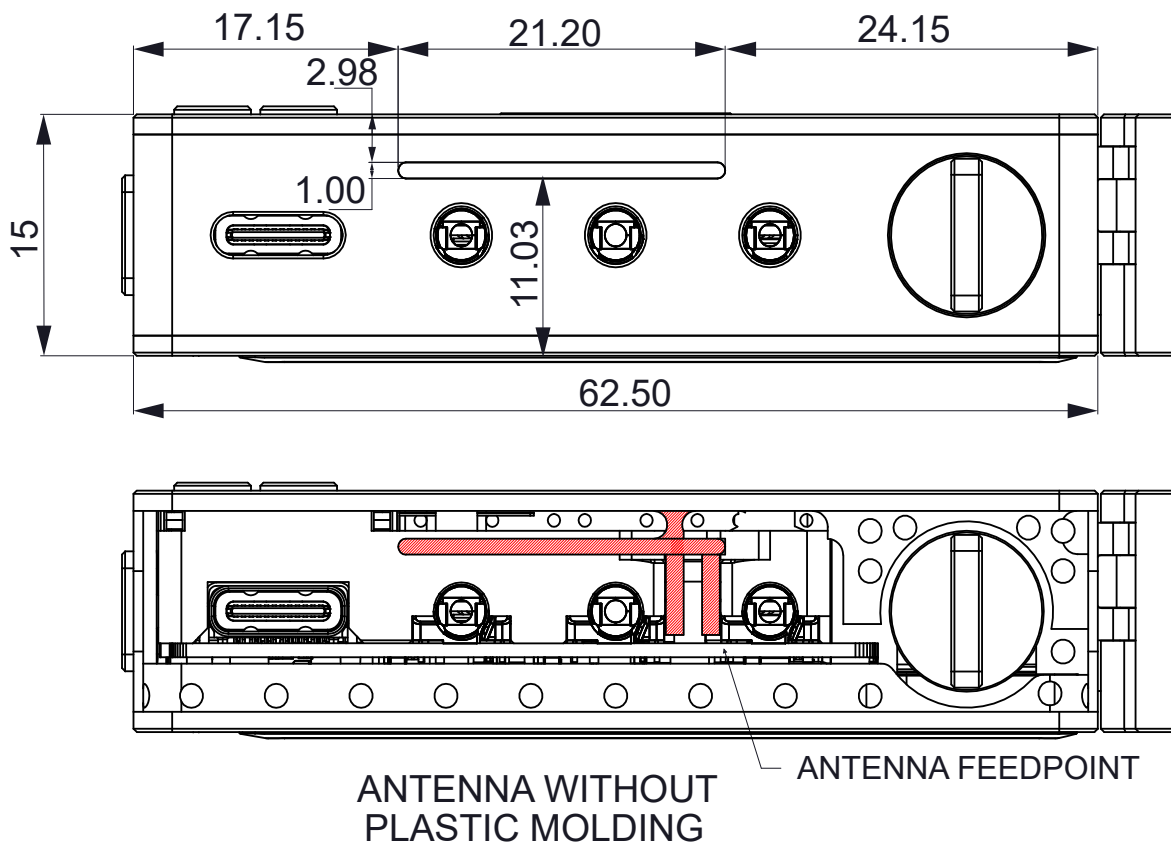
The product antenna is an integral part of the TE025AS001 casing

part no: 430-00287

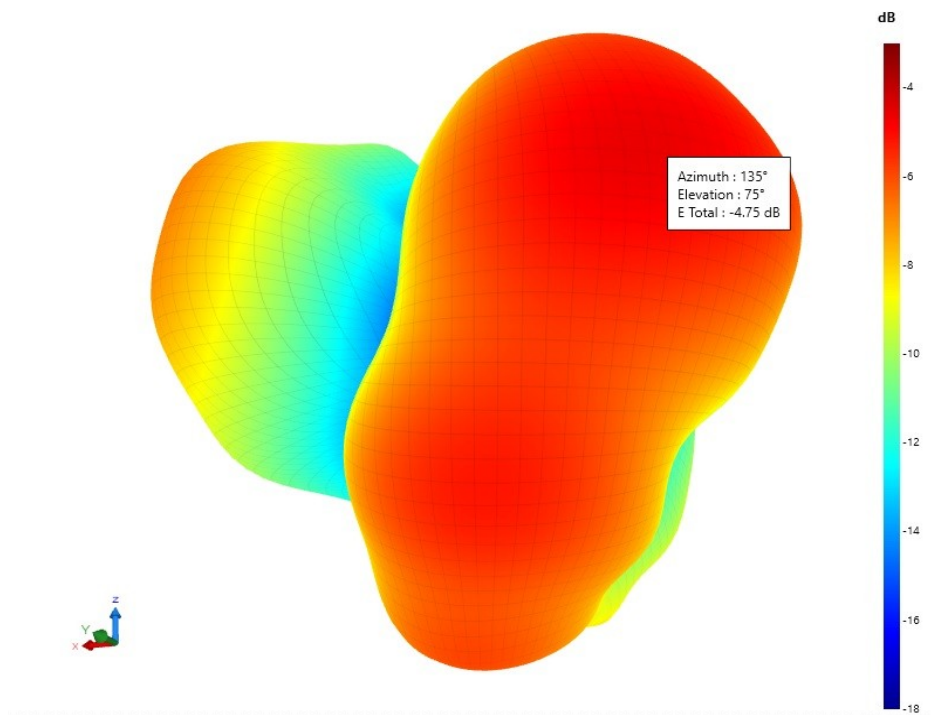
manufacturer: Skyline Innovation/Shenzhen Juhongxin Hardware Products Co.,Ltd.

Antenna gain: -4.75 dBi measured without cables connected and full electronics and mechanical parts of the TE025AS001 assembled.

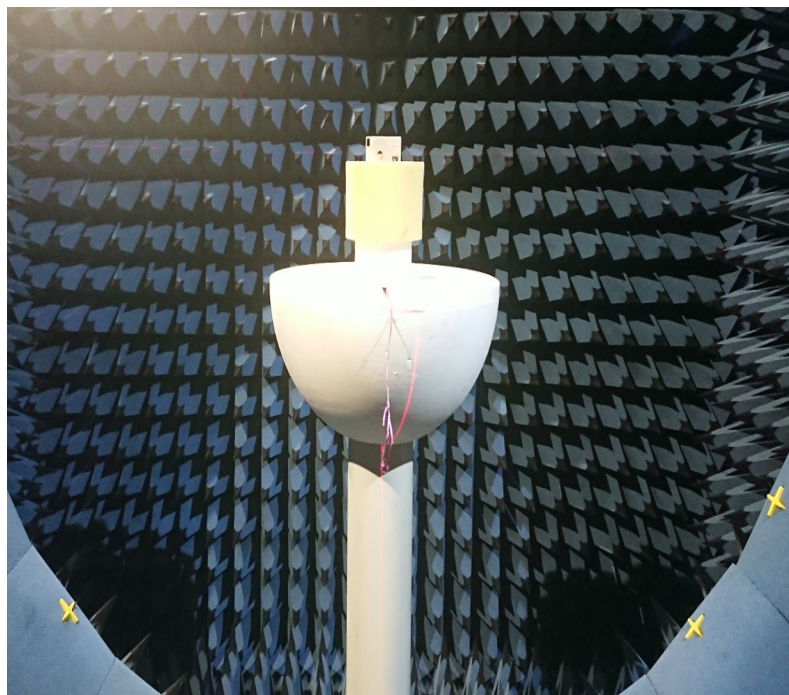
Aluminium antenna length: 21.2 mm, embedded in Toraycon™ 2107G-X01 PBT+PE plastic.



Antenna characteristics measured by Sunway Communications AB using Satimo chamber.



3D plot of antenna radiation (2420 MHz)



Test unit in chamber

Frequency [MHz]	Efficiency [dB]	Max Gain [dBi]	Min Gain [dBi]	Avg Gain [dBi]
2400	-9.83	-5.32	-20.50	-11.05
2402	-9.84	-5.31	-20.09	-11.07
2404	-9.85	-5.29	-19.66	-11.10
2406	-9.87	-5.31	-19.50	-11.13
2408	-9.88	-5.32	-19.34	-11.17
2410	-9.87	-5.30	-19.98	-11.18
2412	-9.81	-5.19	-21.10	-11.15
2414	-9.73	-5.08	-22.07	-11.10
2416	-9.65	-4.96	-22.56	-11.04
2418	-9.58	-4.88	-23.51	-11.00
2420	-9.51	-4.75	-23.79	-10.95
2422	-9.49	-4.75	-23.34	-10.93
2424	-9.48	-4.78	-22.88	-10.91
2426	-9.48	-4.82	-22.29	-10.90
2428	-9.50	-4.86	-21.56	-10.90
2430	-9.52	-4.89	-20.70	-10.90
2432	-9.48	-4.93	-20.18	-10.84
2434	-9.43	-4.93	-19.47	-10.71
2436	-9.39	-4.99	-19.28	-10.67
2438	-9.38	-4.97	-19.04	-10.57
2440	-9.39	-5.02	-18.89	-10.54
2442	-9.36	-4.91	-18.55	-10.45
2444	-9.33	-5.05	-18.60	-10.40
2446	-9.33	-5.10	-18.44	-10.36
2448	-9.33	-5.18	-18.38	-10.34
2450	-9.32	-5.25	-18.32	-10.31
2452	-9.33	-5.33	-18.38	-10.29
2454	-9.31	-5.37	-18.40	-10.26
2456	-9.30	-5.43	-18.52	-10.24
2458	-9.31	-5.51	-18.56	-10.24
2460	-9.34	-5.54	-18.74	-10.27
2462	-9.37	-5.51	-18.83	-10.30
2464	-9.42	-5.49	-19.10	-10.36
2466	-9.51	-5.52	-19.30	-10.46
2468	-9.63	-5.55	-19.35	-10.58
2470	-9.74	-5.59	-19.67	-10.71
2472	-9.79	-5.61	-19.80	-10.76
2474	-9.80	-5.60	-19.82	-10.80
2476	-9.79	-5.57	-20.24	-10.81
2478	-9.79	-5.53	-20.84	-10.81
2480	-9.78	-5.53	-21.38	-10.81
2482	-9.81	-5.60	-21.94	-10.85
2484	-9.85	-5.67	-22.71	-10.90