

Property	40MHz	40MHz	40MHz	40MHz	41MHz	41MHz	41MHz	41MHz	41MHz	42MHz	42MHz	42MHz	42MHz	43MHz	43MHz	43MHz	43MHz	43MHz	43MHz	44MHz	44MHz	44MHz	44MHz	44MHz	44MHz	45MHz	45MHz	45MHz	45MHz	45MHz	45MHz	46MHz	46MHz	46MHz	46MHz	46MHz	46MHz	47MHz	47MHz	47MHz	47MHz	47MHz	47MHz	48MHz	48MHz	48MHz	48MHz	48MHz	48MHz	49MHz	49MHz	49MHz	49MHz	50MHz
Rad. Pow. (dBm)	-18.7	-17.83	-16.9	-16.45	-15.77	-15.08	-14.17	-13.77	-12.97	-12.17	-11.53	-11.02	-10.63	-10.32	-10.14	-10.16	-10.36	-10.44	-11.04	-11.21	-11.58	-12.08	-12.69	-12.89	-13.12	-13.65	-14.47	-14.49	-15.06	-15.23	-15.34	-15.4	-15.53	-15.63	-16.26																			
Rad. Pow. 0-90 (dB)	-24.04	-23.15	-22.27	-21.68	-21	-20.31	-19.4	-18.95	-18.18	-17.43	-16.86	-16.42	-16.09	-15.88	-15.78	-15.83	-16.02	-16.06	-16.62	-16.73	-17.06	-17.51	-18.1	-18.31	-18.55	-19.1	-19.93	-20.18	-20.37	-20.75	-20.9	-20.99	-21.16	-21.29	-21.97																			
Rad. Pow. 90-180 (dB)	-20.21	-19.34	-18.51	-17.99	-17.32	-16.63	-15.72	-15.34	-14.53	-13.71	-13.03	-12.49	-12.08	-11.74	-11.53	-11.74	-11.83	-12.45	-12.64	-13.03	-13.54	-14.16	-14.36	-14.58	-15.12	-15.92	-16.13	-16.60	-16.66	-16.75	-16.8	-16.92	-17.03	-17.62																				
Peak ERP (dB)	-14.6	-13.76	-12.88	-12.31	-11.66	-10.94	-10.03	-9.62	-8.81	-7.9	-7.29	-6.66	-6.35	-6.04	-5.81	-5.82	-6.05	-6.16	-6.81	-7.02	-7.37	-7.92	-8.52	-8.71	-8.86	-9.31	-10.11	-10.29	-10.5	-10.78	-10.77	-10.84	-10.97	-10.94	-11.63																			
Directivity (dB)	4.1	4.07	4.11	4.14	4.11	4.14	4.15	4.16	4.27	4.24	4.26	4.28	4.3	4.34	4.31	4.28	4.23	4.19	4.21	4.16	4.17	4.18	4.26	4.34	4.36	4.4	4.56	4.45	4.57	4.56	4.69	4.63	4.69	4.63																				
Efficiency (dB)	-18.7	-17.83	-16.9	-16.45	-15.77	-15.08	-14.17	-13.77	-12.97	-12.17	-11.53	-11.02	-10.63	-10.32	-10.14	-10.16	-10.36	-10.44	-11.04	-11.21	-11.58	-12.08	-12.69	-12.89	-13.12	-13.65	-14.47	-14.49	-15.06	-15.23	-15.34	-15.4	-15.53	-15.63	-16.26																			
Efficiency (%)	1.35	1.65	2	2.36	2.65	3.1	3.83	4.2	5.05	6.07	7.03	7.91	8.65	9.29	9.68	9.64	9.24	7.87	7.57	6.95	6.19	5.38	5.14	4.88	4.32	3.57	3.4	3.12	3	2.92	2.88	2.8	2.74	2.37																				
Gain (dB)	-14.6	-13.76	-12.88	-12.31	-11.66	-10.94	-10.03	-9.62	-8.81	-7.9	-7.29	-6.66	-6.35	-6.04	-5.81	-5.82	-6.05	-6.16	-6.81	-7.02	-7.37	-7.92	-8.52	-8.71	-8.86	-9.31	-10.11	-10.29	-10.5	-10.78	-10.77	-10.84	-10.97	-10.94	-11.63																			
NPFRP +/-30 (dB)	-22.95	-22.07	-21.22	-20.64	-19.96	-19.28	-18.39	-17.96	-17.18	-16.41	-15.81	-15.32	-14.92	-14.64	-14.49	-14.5	-14.65	-14.66	-15.23	-15.36	-15.69	-16.14	-16.75	-16.96	-17.2	-17.74	-18.56	-18.8	-19.19	-19.36	-19.47	-19.54	-19.72	-19.85	-20.52																			
NPFRP +/-45 (dB)	-20.97	-20.11	-19.27	-18.72	-18.06	-17.39	-16.51	-16.12	-15.34	-14.58	-13.97	-13.48	-13.1	-12.82	-12.65	-12.67	-12.84	-12.88	-13.46	-13.6	-13.94	-14.41	-15.02	-15.23	-15.47	-16.01	-16.82	-17.05	-17.44	-17.6	-17.71	-17.78	-17.95	-18.08	-18.72																			
Maximum H-V Value (dB)	-14.6	-13.76	-12.88	-12.31	-11.66	-10.94	-10.03	-9.62	-8.81	-7.9	-7.29	-6.66	-6.35	-6.04	-5.81	-5.82	-6.05	-6.16	-6.81	-7.02	-7.37	-7.92	-8.52	-8.71	-8.86	-9.31	-10.11	-10.29	-10.5	-10.78	-10.77	-10.84	-10.97	-10.94	-11.63																			
Maximum H-V @ Theta (deg.)	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135																		
Minimum H-V @ Theta (deg.)	120	125	125	120	105	105	105	105	105	105	105	120	105	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120																		
Minimum H-V Value (dB)	-17.63	-16.85	-16.02	-15.22	-14.51	-13.73	-13.04	-12.36	-11.58	-10.81	-10.19	-9.62	-9.05	-8.48	-7.91	-7.34	-6.77	-6.2	-5.63	-5.06	-4.49	-3.92	-3.35	-2.78	-2.21	-1.64	-1.07	-0.5	0.07	0.64	1.21	1.78	2.35	2.92	3.49																			
Minimum H-V @ Theta (deg.)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30																			
Minimum H-V @ Phi (deg.)	285	285	285	285	285	285	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270																		
Horizontal 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																		
H Rad. Pow. (dB)	-20.57	-19.63	-18.72	-18.15	-17.44	-16.71	-15.74	-15.29	-14.46	-13.66	-13	-12.46	-12.07	-11.79	-11.62	-11.63	-11.81	-11.92	-12.55	-12.71	-13.05	-13.5	-14.12	-14.29	-14.47	-14.93	-15.74	-15.95	-16.29	-16.43	-16.51	-16.59	-16.71	-16.79	-17.39																			
H Rad. Pow. 0-90 (dB)	-25.8	-24.87	-23.95	-23.34	-22.63	-21.92	-20.95	-20.43	-19.62	-18.83	-18.2	-17.67	-17.3	-17.1	-16.98	-16.99	-17.16	-17.28	-17.93	-18.09	-18.41	-18.88	-19.54	-19.73	-19.92	-20.41	-21.26	-21.53	-21.9	-22.06	-22.19	-22.26	-22.54	-22.64	-23.3																			
H Rad. Pow. 90-180 (dB)	-22.12	-21.17	-20.27	-19.72	-19.01	-18.27	-17.29	-16.67	-16.04	-15.24	-14.57	-14.02	-13.62	-13.3	-13.11	-13.12	-13.31	-13.41	-14.03	-14.2	-14.54	-14.99	-15.59	-15.75	-15.92	-16.38	-17.17	-17.36	-17.66	-17.81	-17.87	-17.93	-18.03	-18.1	-18.68																			
H Peak ERP (dB)	-15.96	-14.96	-14.02	-13.51	-12.72	-11.92	-11	-10.54	-9.67	-8.83	-8.14	-7.57	-7.19	-6.91	-6.73	-6.81	-6.99	-7.17	-7.82	-8.03	-8.37	-8.84	-9.44	-9.56	-9.67	-10.07	-10.82	-11	-11.23	-11.47	-11.49	-11.61	-11.75	-11.85	-12.35																			
H Directivity (dB)	4.61	4.67	4.67	4.64	4.72	4.79	4.74	4.75	4.79	4.83	4.86	4.89	4.88	4.88	4.89	4.82	4.82	4.75	4.73	4.68	4.68	4.66	4.68	4.73	4.8	4.86	4.92	4.95	5.06	4.96	5.02	4.98	5.01	5.14	5.04																			
H Efficiency (dB)	-20.57	-19.63	-18.72	-18.15	-17.44	-16.71	-15.74	-15.29	-14.46	-13.66	-13	-12.46	-12.07	-11.79	-11.62	-11.63	-11.81	-11.92	-12.55	-12.71	-13.05	-13.5	-14.12	-14.29	-14.47	-14.93	-15.74	-15.95	-16.29	-16.43	-16.51	-16.59	-16.71	-16.79	-17.39																			
H Efficiency (%)	0.88	1.09	1.34	1.53	1.8	2.13	2.67	3.38	4.31	5.01	5.68	6.21	6.62	6.89	6.87	6.59	6.43	5.56	5.36	4.95	4.47	3.87	3.72	3.57	3.21	2.67	2.54	2.35	2.28	2.23	2.19	2.13	2.08	1.82																				
H Gain (dB)	-15.96	-14.96	-14.02	-13.51	-12.72	-11.92	-11	-10.54	-9.67	-8.83	-8.14	-7.57	-7.19	-6.91	-6.73	-6.81	-6.99	-7.17	-7.82	-8.03	-8.37	-8.84	-9.44	-9.56	-9.67	-10.07	-10.82	-11	-11.23	-11.47	-11.49	-11.61	-11.75	-11.85	-12.35																			
H NPFRP +/-30 (dB)	-24.88	-23.94	-23.02	-22.4	-21.68	-20.95	-19.98	-19.48	-18.63	-17.81	-17.15	-16.6	-16.17	-15.9	-15.72	-15.7	-15.84	-15.92	-16.53	-16.67	-16.99	-17.44	-18.08	-18.28	-18.46	-18.95	-19.76	-20.01	-20.27	-20.5	-20.58	-20.7	-20.87	-21.61																				
H NPFRP +/-45 (dB)	-22.78	-21.86	-20.97	-20.38	-19.68	-18.96	-18.01	-17.56	-16.74	-15.95	-15.31	-14.77	-14.38	-14.1	-13.93	-13.92	-14.08	-14.16	-14.78	-14.92	-15.24	-15.69	-16.33	-16.52	-16.7	-17.19	-17.99	-18.23	-18.59	-18.72	-18.79	-18.89	-19.05	-19.15	-19.77																			
Minimum H Value (dB)	-15.96	-14.96	-14.02	-13.51	-12.72	-11.92	-11	-10.54	-9.67	-8.83	-8.14	-7.57	-7.19	-6.91	-6.73	-6.81	-6.99	-7.17	-7.82	-8.03	-8.37	-8.84	-9.44	-9.56	-9.67	-10.07	-10.82	-11	-11.23	-11.47	-11.49	-11.61	-11.7	-11.85	-12.35																			
Maximum H @ Theta (deg.)	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135																			
Minimum H @ Phi (deg.)	105	105	105	105	105	105	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90																			
Minimum H Value (dB)	-48.73	-52.23	-48.69	-47.55	-46.02	-45.96	-43.67	-41.04	-38.75	-36.81	-35.15	-33.92	-33.18	-32.88	-32.9	-33.84	-35.02	-34.54	-38.13	-41.73	-45.13	-46.29	-45.56	-43.74	-43.22	-44.4	-46.2	-44.19	-45.39	-43.11	-43.16	-42.99	-54	-51.09	-46.5																			
Minimum H @ Theta (deg.)	15	15	15	30	30	30	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165																			
Minimum H @ Phi (deg.)	210	210	210	255	255	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265																			
Vertical 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
Ant. Port Imp. Pow. (dB)	-23.27	-22.52	-21.81	-21.33	-20.74	-20.13	-19.37	-19.09	-18.34	-17.55	-16.91	-16.5	-16.12	-15.75	-15.55	-15.59	-15.84	-15.82	-16.37	-16.54	-17.02	-17.48	-18.2	-18.47	-18.85	-19.89	-20.42	-20.67	-21.12	-21.39	-21.61	-21.59	-21.76	-22.03	-22.65																			
V Rad. Pow. (dB)	-28.82	-27.98	-27.2	-26.66	-26.04	-25.39	-24.62	-24.35	-23.68	-22.85	-22.24	-22	-21.96	-22.13	-22.41	-22.16	-22.45	-22.45	-22.77	-23.2	-23.62	-23.85	-24.21	-24.94	-25.71	-25.9	-26.35	-26.58	-26.78	-26.67	-26.83	-27.03	-27.77																					
V Rad. Pow. 90-180 (dB)	-24.68	-23.97	-23.29	-22.84	-22.26	-21.66	-20.9																																															

A

B

C

D

A

B

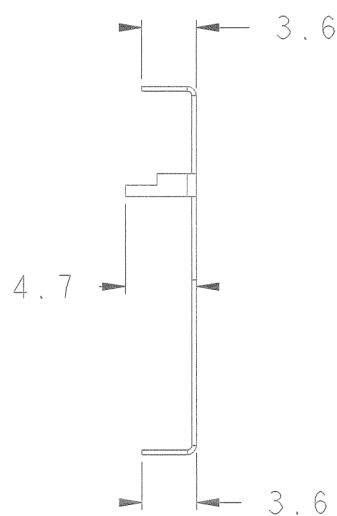
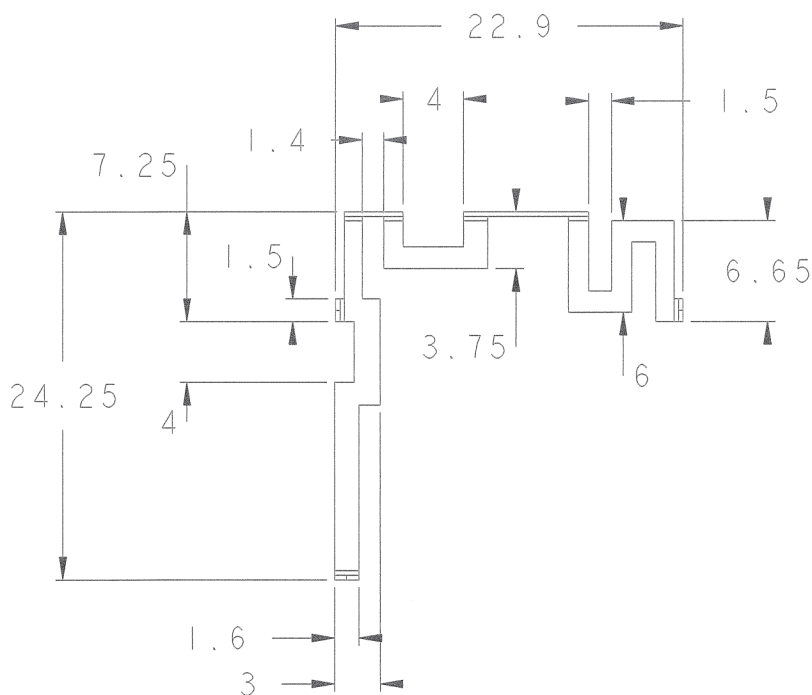
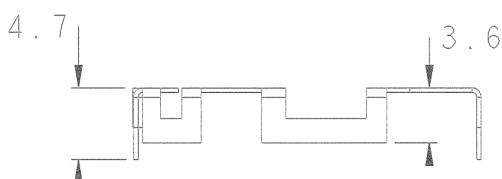
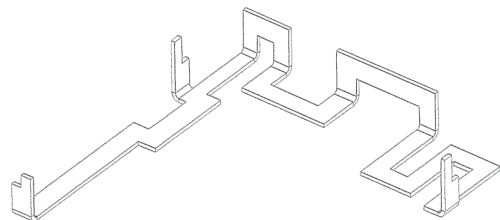
C

D

E

REVISIONS

REV	DESCRIPTION	ENGR
0A	1ST ISSUE	0801

**Climax**CLIMAX PRECISION IND. CO., LTD.
Research and Design

Drawn: Asim

Designed: Lic

Checked: Chen

Approved: Chen

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DIMENSIONAL TOLERANCES±	M1	M2	S1	S2	P1	P2	C
0~6	0.05	0.10	0.15	0.20	0.05	0.10	0.5
6~30	0.10	0.20	0.15	0.25	0.10	0.15	1.0
30~80	0.15	0.25	0.20	0.30	0.20	0.40	2.0
80~180	0.15	0.30	0.25	0.45	0.40	0.80	3.0
180~315	0.20	0.50	0.40	0.60	0.60	1.20	3.0
315~800	0.30	0.80	0.70	1.10	0.80	1.50	4.0

Material:

洋白銅

Treatment:



THIRD ANGLE PROJECTION

A4
SIZE

DESCRIPTION:

MDC-5-R2-2W-P32-LLCC68-ANT

PART NO.:

REV.

M01

SCALE 2.000 UNITS MM USED ON

SHEET OF

DWG NAME

MDC-5-R2-2W-P32-LLCC68-ANT

DWG NO.

DATE

2025.07.16