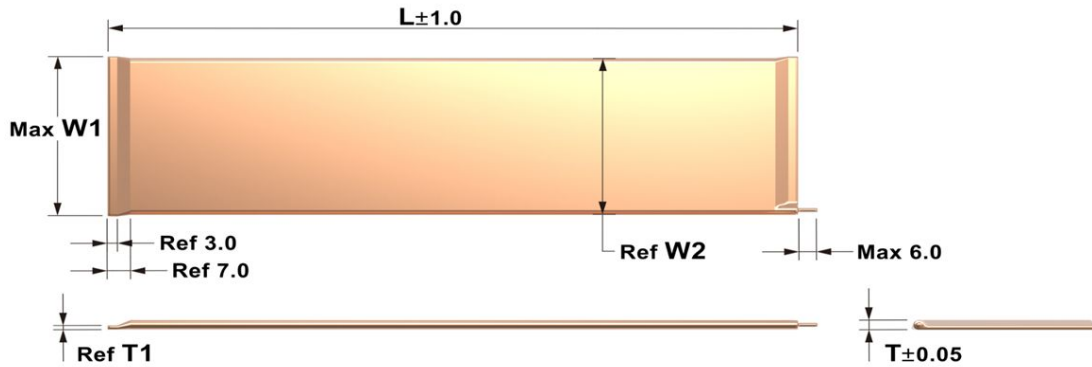


Dual-Use Vapor Chambers | Commercial & Defense

Copper | Sintered Wick | Water (methanol also available)



Specifications

- Length (L) ± 1.0 mm
- Width 1 Max (see diag), Width 2 (W2) ± 0.2 mm
- Thickness (T1) ± 0.05 mm
- Flatness 0.05mm/25mm; if machined 0.03mm/25mm
- Fill Tube Max Length 6.0 mm
- Operating Temperature: 20 to 110 °C
- Non-operating Temperature: -40 to 110 °C

W1
Maximum Width (mm)

T1 Thickness (mm)

2.5

3.0

3.5

4.0

4.5

14.5	15.2	18.4	19.5	20.0	21.5	23.1	25.4	30.0	34.1	39.4	46.5	49.7	52.8	57.2	66.6	69.7	75.2	80.7	81.5	83.1	88.6	102.7	109.0	
W2 Reference Width (mm)																								
13.5	14.3	17.4	18.5	19.0	20.6	22.1	24.5	29.0	33.1	38.5														
13.2	14.0	17.1	18.2	18.7	20.3	21.8	24.2	28.7	32.8	38.2	45.4	48.5	51.7											
12.9	13.7	16.8	17.9	18.4	20.0	21.6	23.9	28.5	32.5	37.9	45.1	48.2	51.4	56.1	65.5	68.7	74.2	79.6	80.4	82.0	87.5	101.6	107.9	
											44.8	48.0	51.1	55.8	65.2	68.4	73.9	79.4	80.1	81.7	87.2	101.3	107.6	
															55.5	64.9	68.1	73.6	79.1	79.9	81.4	86.9	101.1	107.3

Min Length (mm)

Max Length (mm)

Qmax (L100mm, Heater 10*10mm)

Bending (Rmin)

Rth °C/w

Thermal Conductivity (W/m-K)

Weight/mm of Length (Gram)

65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	75	75	75	75	75	75	75	75	75
200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	250	250	250	250	250	250	250	250	250
39	41	50	54	55	60	65	72	85	98	114	134	144	153	164	193	202	219	235	238	242	259	301	320
R7	R7	R7	R9	R9	R9	R9	R9	R9	R9	R9	R9	R9	R9	R9	R9	R9	R9	R12	R12	R12	R12	R12	R12
0.14	0.14	0.12	0.11	0.11	0.11	0.10	0.10	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06
8334	8191	7634	7449	7371	7121	6883	6551	5983	5546	5059	4218	4043	3881	3024	2727	2640	2501	2375	2358	2325	2216	1977	1886
0.162	0.171	0.208	0.221	0.226	0.245	0.263	0.291	0.345	0.393	0.456	0.621	0.663	0.706	1.065	1.243	1.303	1.407	1.511	1.525	1.555	1.659	1.926	2.045

Qmax & thermal conductivity based on horizontal orientation, heat source at center, heat sink on top, total length of 100mm & heat source size 10x10mm

Additional Notes

- Secondary operations include bending, soldering pedestals, and nickel plating
- Non-rectangular shapes acceptable but will lower performance figures
- 100% of parts are burned-in, helium leak tested, and checked for thermal performance & dimensions