Marketech International, Inc.

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TECHNICAL DATA

Tungsten/Copper – Moly/Copper – Cu/Mo/Cu Heat Sink Materials

Values are approximate and may vary.

Type	Materials	Density g/cm^3	Thermal Conductivity W/m•K	CTE, ppm/ºK 20-100ºC
Composite	W90Cu	16.6-17.0	180~190	5.6~6.3
	W85Cu	16.2-16.6	190~200	6.3~7.0
	W80Cu	15.4-15.8	200~220	7.8~8.5
	W75Cu	14.8-15.2	220~240	9.5~10.2
	Mo70Cu	9.6-9.8	190~200	7.8~8.4
	Mo60Cu	9.5-9.7	200~220	9.0~9.6
	Mo50Cu	9.3-9.5	220~250	10.1~10.7
Copper Metal Laminate	1:1:1 Cu/Mo/Cu	9.27-9.47	300-310(x-y) 220-230(z)	9.6-10.0
	1:2:1 Cu/Mo/Cu	9.48-9.68	270-280(x-y) 200-210(z)	8.5-8.9
	1:3:1 Cu/Mo/Cu	9.6-9.8	240-250(x-y) 180-190(z)	7.7-8.1
	1:4:1 Cu/Mo/Cu	9.7-9.9	210-220(x-y) 170-180(z)	6.8-7.2
	1:5:1 Cu/Mo/Cu	9.74-9.94	195-200(x-y) 165-170(z)	6.2-6.6
	13:74:13 Cu/Mo/Cu	9.78-9.98	190-200(x-y) 160-170(z)	5.7-6.1
	1:4:1 $Cu/Mo_{70}/Cu$	9.46	210-220(x-y) 170-180(z)	7.2