



High- and Low-Watt-Density Cartridge Heaters

HIGH-WATT-DENSITY Tempco

- 321 stainless steel sheath tolerates high temps.
- Sheath dia. tolerance: ±0.002"

Vulcan, Thunderbolt™—
Operate up to 5 times the watt density of standard cartridge heaters.

- Corrosion-resistant alloy sheath
- Sheath dia. tolerance: +0.000" to -0.004"

LOW-WATT-DENSITY

Corrosion-resistant 304 stainless steel sheath

Excellent for insertion into dies, molds, and platens.

For more cartridge heaters, go to Grainger.com®.

4NKH1



- Tempco**
- Sheath dia. tolerance: ±0.002"

- Vulcan**
- Sheath dia. tolerance: +0.000" to -0.004"

		120V AC		240V AC	
Dia.	L	Watts	Watt Density	Mfr. Model	Item No.
Tempco, High-Watt-Density, 10 in Leads, Max. Temp. 1,400°F					
1/8 in	1 1/4 in	25	90W/sq in	HDC19100	4NH46
1/8 in	1 1/4 in	50	180W/sq in	HDC19102	4NH48
1/8 in	1 1/2 in	30	80W/sq in	HDC19103	4NH49
1/8 in	1 1/2 in	60	160W/sq in	HDC19104	4NH21
1/4 in	1 in	80	204W/sq in	HDC00002	4NJA3
1/4 in	1 in	100	255W/sq in	HDC00003	4NJA4
1/4 in	1 1/2 in	100	127W/sq in	HDC00016	4NJA6
1/4 in	1 1/2 in	200	255W/sq in	HDC00022	4NJA8
1/4 in	2 in	100	85W/sq in	HDC00030	4NJC1
1/4 in	2 in	250	212W/sq in	HDC00038	4NJC2
1/4 in	2 1/2 in	250	159W/sq in	HDC00045	4NJC3
1/4 in	3 in	100	51W/sq in	HDC00050	4NJC5
1/4 in	3 1/2 in	300	127W/sq in	HDC00063	4NJC9
1/4 in	4 in	200	73W/sq in	HDC00070	4NJD1
1/4 in	4 in	300	109W/sq in	HDC00074	4NJD2
1/4 in	4 1/2 in	350	111W/sq in	HDC20500	4NJD4
1/4 in	8 in	600	102W/sq in	—	—
3/8 in	1 in	100	170W/sq in	HDC00127	4NJE4
3/8 in	1 1/2 in	250	212W/sq in	HDC00157	4NJE6
3/8 in	2 in	400	226W/sq in	HDC00184	4NJE8
3/8 in	3 in	250	85W/sq in	HDC00242	4NJE3
3/8 in	3 in	500	170W/sq in	HDC00251	4NJE6
3/8 in	3 1/2 in	350	99W/sq in	HDC00263	4NJE7
3/8 in	4 in	250	61W/sq in	HDC00279	4NJE9
3/8 in	4 in	500	121W/sq in	HDC00289	4NJE2
3/8 in	5 in	300	57W/sq in	HDC00317	4NJE4
3/8 in	6 in	300	46W/sq in	HDC00347	4NJE6
3/8 in	6 in	750	116W/sq in	HDC00356	4NJE8
3/8 in	7 in	250	35W/sq in	HDC00365	4NJE1
3/8 in	7 in	600	78W/sq in	HDC00370	4NJE3
3/8 in	7 in	1,000	131W/sq in	—	—
3/8 in	8 in	300	34W/sq in	HDC00382	4NJE6
3/8 in	2 in	400	170W/sq in	HDC00453	4NJE3
3/8 in	2 in	400	136W/sq in	HDC00545	4NJE5
3/8 in	5 in	750	106W/sq in	HDC00578	4NJE7
3/8 in	6 in	500	58W/sq in	HDC00603	4NJE9
3/8 in	6 in	750	87W/sq in	HDC00606	4NJE2
3/8 in	6 in	1,000	116W/sq in	—	—
3/8 in	8 in	500	42W/sq in	HDC00642	4NJE5
3/8 in	8 in	1,000	85W/sq in	—	—
3/8 in	8 in	1,500	127W/sq in	—	—
3/8 in	10 in	1,000	67W/sq in	—	—
3/8 in	3 in	500	102W/sq in	HDC00755	4NJE4
3/8 in	6 in	1,000	93W/sq in	—	—
3/8 in	8 in	1,500	102W/sq in	—	—
3/8 in	10 in	2,000	89W/sq in	—	—
Tempco, High-Watt-Density, 12 in Leads, Includes 10 in Braid On Leads, Max. Temp. 1,400°F					
1/4 in	1 in	100	255W/sq in	HDC20468	4NJE9
1/4 in	1 1/4 in	40	58W/sq in	HDC20530	4NJE2
1/4 in	1 1/2 in	200	255W/sq in	HDC20559	4NJE8
1/4 in	2 in	100	85W/sq in	HDC20534	4NJE7
1/4 in	3 in	300	153W/sq in	HDC07930	4NJE5
1/4 in	4 in	300	109W/sq in	HDC20542	4NJE9
1/4 in	7 in	500	100W/sq in	HDC20575	4NJE7
1/4 in	10 in	750	101W/sq in	—	—
3/8 in	1 1/4 in	150	172W/sq in	—	—
3/8 in	1 1/2 in	250	212W/sq in	HDC20562	4NJE9
3/8 in	2 in	150	86W/sq in	HDC10584	4NJE2
3/8 in	2 in	200	115W/sq in	HDC17278	4NJE4
3/8 in	2 in	400	226W/sq in	HDC20563	4NJE6
3/8 in	2 1/2 in	500	212W/sq in	HDC20576	4NJE1
3/8 in	3 in	500	170W/sq in	HDC20577	4NJE5
3/8 in	3 1/2 in	350	99W/sq in	HDC20558	4NJE7
3/8 in	4 in	250	61W/sq in	—	—
3/8 in	4 in	500	121W/sq in	HDC04315	4NJE4
3/8 in	5 in	300	57W/sq in	HDC12441	4NJE6
3/8 in	5 in	500	96W/sq in	HDC05260	4NJE8
3/8 in	6 in	500	79W/sq in	HDC20570	4NJE3
3/8 in	6 in	750	79W/sq in	HDC20578	4NJE4
3/8 in	7 in	250	33W/sq in	HDC06130	4NJE7

		120V AC		240V AC	
Dia.	L	Watts	Watt Density	Mfr. Model	Item No.
Vulcan, High-Watt-Density Thunderbolt™, 10 in Leads, Max. Temp. 1,600°F					
3/8 in	1 1/4 in	100	115W/sq in	TB380A	2E905
3/8 in	1 1/4 in	150	172W/sq in	TB3815A	2E907
3/8 in	1 1/2 in	100	86W/sq in	TB381A	2E908
3/8 in	2 in	150	85W/sq in	TB3816A	2E909
3/8 in	2 in	200	114W/sq in	TB3821A	2E910
3/8 in	2 1/2 in	200	85W/sq in	TB3035A	3HP98
3/8 in	4 in	300	73W/sq in	TB386A	2E911
3/8 in	5 in	500	95W/sq in	TB3070A	3HR18
3/8 in	6 in	500	77W/sq in	TB388A	3HR55
1/2 in	1 1/2 in	150	96W/sq in	TB501A	3HR44
1/2 in	2 in	200	85W/sq in	TB5015A	2E914
1/2 in	2 1/4 in	280	102W/sq in	TB503A	2E915
1/2 in	2 1/2 in	500	160W/sq in	TB5046A	3HR78
1/2 in	3 in	250	64W/sq in	TB505A	3HR88
1/2 in	3 in	400	102W/sq in	—	—
1/2 in	4 in	250	46W/sq in	TB5065A	3HR90
1/2 in	4 in	550	100W/sq in	TB506A	2E916
1/2 in	5 in	500	71W/sq in	TB507A	2E917
5/8 in	4 in	550	80W/sq in	TB6214A	3HT50
5/8 in	5 in	500	57W/sq in	—	—
5/8 in	6 in	500	46W/sq in	—	—
3/4 in	6 in	1,000	77W/sq in	—	—
Tempco, Low-Watt-Density, 10 in Leads, Max. Temp. 1,200°F					
3/16 in	1 1/2 in	20	30W/sq in	LDC00002	4NKH6
3/16 in	3 in	45	29W/sq in	LDC00005	4NKH7
1/4 in	2 in	32	27W/sq in	LDC00015	4NKH1
1/4 in	4 in	100	36W/sq in	LDC00022	4NKH4
1/4 in	6 in	150	35W/sq in	LDC00025	4NKH5
3/8 in	2 in	60	31W/sq in	LDC001951	4NKH8
3/8 in	2 1/2 in	80	32W/sq in	LDC001952	4NKH9
3/8 in	4 1/2 in	150	32W/sq in	LDC00051	4NKH2
3/8 in	6 in	250	39W/sq in	LDC00061	4NKH3
1/2 in	5 in	200	28W/sq in	LDC00106	4NKH8
5/8 in	3 in	175	36W/sq in	LDC00171	4TCR4
5/8 in	5 in	250	28W/sq in	LDC00183	4TCR5
Vulcan, Low-Watt-Density, 10 in Leads, Max. Temp. 900°F					
3/8 in	1 1/2 in	50	42W/sq in	C3910A	2E890
3/8 in	2 1/2 in	75	34W/sq in	C3830A	2E891
3/8 in	3 in	100	34W/sq in	C3840A	2E892
3/8 in	4 in	150	36W/sq in	C3930A	2E893
3/8 in	5 in	200	38W/sq in	C3940A	2E894
1/2 in	2 in	100	42W/sq in	C5180A	2E895
1/2 in	6 in	300	35W/sq in	C5170A	2E896
3/8 in	2 1/2 in	150	41W/sq in	C6360A	2E898
3/8 in	4 1/2 in	240	31W/sq in	C627A	3HJ87
3/8 in	7 in	350	27W/sq in	C692A	3HJ84
3/4 in	4 in	300	36W/sq in	C766A	3HK06
3/4 in	8 in	500	28W/sq in	C758A	3HJ87
1 in	6 1/2 in	600	33W/sq in	C9770A	3HK10



Silicone Rubber and Tubular Enclosure Heaters

Protect enclosures against condensation, humidity, and freezing. Mount heater vertically at the bottom of the enclosure.

- Silicone Rubber**
- Silicone rubber vulcanized to aluminum mounting plate
 - 1/2" H with mounting flange
 - 48" leads
 - Mounting holes 0.2" oblong 5/32" x 14"

- Tubular**
- Corrosion-resistant housing
 - 3 5/8" H x 1 1/16" W x 8 3/8" L
 - Mount via perforated holes in housing

Remote Thermostats—Can be placed anywhere in the enclosure and secured with pressure-sensitive adhesive.

- Silicone rubber base and enclosure
- 10A/250VAC, 15A/120VAC ■ 48" leads

Watts	Heater Voltage	With Thermostat and Cord		Without Thermostat or Cord		Control Range (°F)		Mfr. Model	Item No.		
		Mfr. Model	Item No.	Mfr. Model	Item No.	110°F, Opens 140°F	150°F, Opens 180°F				
Silicone Rubber Enclosure Heaters, 120V AC, 1-Phase											
6 in	4 in	60 W	2 1/2 in	EHR00007	2PCH8	EHR00008	2PCH9	EHR00009	2PCJ1		
12 in	9 in	120 W	2 1/2 in	EHR00014	2PCJ2	EHR00015	2PCJ3	EHR00016	2PCJ4		
10 in	7 in	250 W	4 1/2 in	EHR00019	2PCJ5	EHR00029	2PCJ6	EHR00030	2PCJ7		
Tubular Enclosure Heaters, 1-Phase											
120 W	120V AC	EHT00030	4TCX7	EHT00029	4TCX8	EHT00031	4TCY1	EHT00033	4TCY3		
150 W	120V AC	EHT00032	4TCX9	EHT00035	4TCY5	EHT00036	4TCY4	EHT00037	4TCY7		
250 W	120V AC	EHT00034	4TCY2	EHT00038	4TCY6	EHT00039	4TCY9	—	—		
350 W	120V AC	EHT00036	4TCY4	—	—	—	—	—	—		
500 W	120V AC	EHT00038	4TCY6	—	—	—	—	—	—		
500 W	240V AC	—	—	EHT00039	4TCY9	—	—	—	—		
Remote Thermostats, 120 to 240V AC, 15°F Diff.											
Open At 50, Close At 32		EHA00009		6TH19		Open At 60, Close At 40		EHA00001		6TH00	
Open At 140, Close At 110		EHA00002		6TH01		Open At 180, Close At 150		EHA00003		6TH02	