



CARTRIDGE

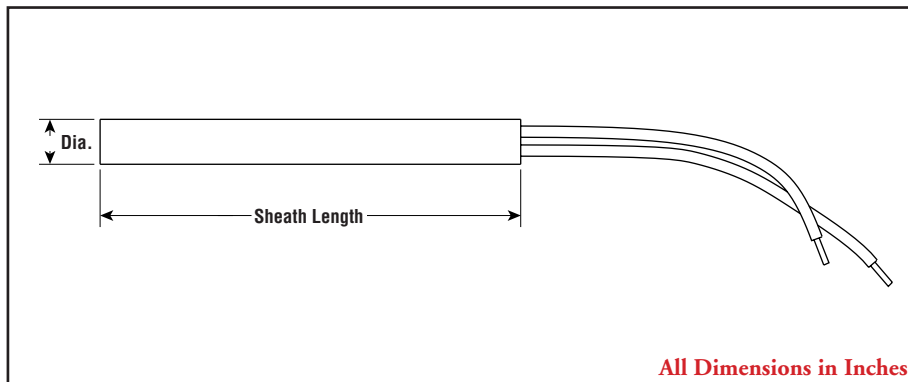
CIR

1/4 - 3/4" Dia. Cartridge Heater



- 1/4, 3/8, 1/2, 5/8 and 3/4" Dia.
- 50 - 5,000 Watts
- 120 and 240 Volt
- 1-1/4 - 48" Sheath Lengths
- INCOLOY® Sheath

Dimensions



Applications

- Dies and Molds
- Packing Machinery
- Laminating/Adhesives
- Hot Glue Melting
- Lead Melting
- Medical Application
- Extruding Dies
- Stamping and Marking Machine

Features

Leads can be bent at right angle near the heater without exposing bare wire therefore eliminating electrical shorts.

Sheath Material — Type CIR cartridge heaters are made with a high- temperature INCOLOY® sheath material.

High Temperature Leadwire — Up to 842°F (450°C).

Lead Length — Type CIR heaters are stocked with 14" long leads. Longer lead lengths can be readily spliced on.

Advantages

Higher Temperatures, Faster Production Rates — Because Type CIR's patented construction and high watt density capability let you put more heat in less space.

Shock and Vibration Resistant — Tightly compacted refractory insulation makes CIR heaters suitable for severe applications.

Even Temperature throughout the heater's length is produced by the uniform winding of the wire on the smooth supporting core. Close and even spacing between wire and inside of sheath is maintained for good heat transfer. Tight spacing between turns permits the use of largest gauge resistance wire.

Excellent Oxidation and Corrosion Resistance is provided by special Chromalox alloy sheath. Thermal expansion characteristics of sheath and refractory are closely matched.

Specifications and Ordering Information

DIM (In.)				120V		240V		Wt. (Lbs.)	
Sheath Dia.	Length	Watts	W/In ²	Model	Stock	PCN	Stock		PCN
1/4" Diameter									
1/4	1-1/4	75	128	CIR-1013	S	279216	—	—	0.02
1/4	1-1/4	100	171	CIR-1012	S	274255	—	—	0.02
1/4	1-1/4	150	256	CIR-1014	NS	279224	—	—	0.02
1/4	1-1/4	225	388	CIR-10121	—	—	S	242050	0.02
1/4	1-1/2	50	64	CIR-1016	NS	279232	—	—	0.02
1/4	1-1/2	100	128	CIR-1017	NS	279240	—	—	0.02
1/4	1-1/2	125	160	CIR-1015	S	274263	—	—	0.02
1/4	1-1/2	150	192	CIR-1018	NS	279259	—	—	0.02
1/4	1-1/2	175	220	CIR-1019	NS	279267	NS	279275	0.02
1/4	1-1/2	200	256	CIR-10151	NS	279283	S	279291	0.02
1/4	1-1/2	250	290	CIR-10153	—	—	S	283952	0.02
1/4	1-3/4	100	127	CIR-10181	NS	140396	—	—	—
1/4	2	100	85	CIR-1021	S	279304	—	—	0.03
1/4	2	125	107	CIR-1022	—	279312	NS	279320	0.03
1/4	2	150	128	CIR-1020	S	274271	S	279339	0.03
1/4	2	200	171	CIR-1023	NS	279347	S	279355	0.03
1/4	2	250	214	CIR-1024	NS	279363	S	279371	0.03
1/4	2	300	256	CIR-10201	—	—	NS	284664	0.03

Specifications and Ordering Information

DIM (In.)				120V		240V		Wt. (Lbs.)	
Sheath Dia.	Length	Watts	W/In ²	Model	Stock	PCN	Stock		PCN
1/4" Diameter									
1/4	2-1/4	150	127	CIR-10231	S	140409	—	—	—
1/4	2-1/4	200	170	CIR-10231	S	140417	—	—	—
1/4	2-1/4	80	67	CIR-10231	NS	140425	—	—	—
1/4	2-1/2	175	112	CIR-1025	NS	279380	—	242077	0.03
1/4	2-1/2	200	128	CIR-1027	—	284550	S	283960	0.03
1/4	2-1/2	250	160	CIR-1029	NS	242085	NS	242093	0.03
1/4	2-3/4	200	127	CIR-10281	NS	140433	—	—	—
1/4	3	100	51	CIR-1031	NS	279400	—	279419	0.04
1/4	3	150	77	CIR-1034	—	284605	S	283979	0.04
1/4	3	200	103	CIR-1030	S	274280	S	279427	0.04
1/4	3	250	129	CIR-10301	—	—	S	284672	0.04
1/4	3	300	153	CIR-1032	NS	279435	S	279443	0.04
1/4	3	400	205	CIR-1033	—	—	S	279451	0.04
1/4	3-1/4	200	102	CIR-10331	S	140441	—	—	—
1/4	3-1/2	100	43	CIR-1035	—	279460	—	279478	0.04
1/4	3-1/2	200	85	CIR-1036	—	279486	—	279494	0.04
1/4	3-1/2	225	96	CIR-1038	—	—	—	285421	0.04
1/4	3-1/2	300	127	CIR-1037	—	—	S	284699	0.04

CIR 1/4 - 3/4" Dia. Cartridge Heater (cont'd.)

Specifications and Ordering Information

DIM (In.)		Watts	W/In ²	Model	120V		240V		Wt. (Lbs.)
Dia.	Sheath Length				Stock	PCN	Stock	PCN	
1/2" Diameter									
3/4	5	300	28	CIR-5052	S	244460	—	—	0.39
3/4	5	500	47	CIR-5051	—	—	S	281084	0.39
3/4	5	1,000	95	CIR-5050	NS	278070	NS	278088	0.39
3/4	6	350	27	CIR-5061	S	140281	S	275813	0.48
3/4	6	500	39	CIR-5065	S	244478	S	244486	0.48
3/4	6	750	58	CIR-5062	—	—	—	281092	0.48
3/4	6	1,000	78	CIR-5067	—	—	S	244494	0.48
3/4	6	1,100	85	CIR-5060	NS	278096	S	278109	0.48
3/4	6	1,500	117	CIR-5068	—	—	—	244507	0.48
3/4	6	2,000	155	CIR-5069	—	—	S	244515	0.48
3/4	7	500	33	CIR-5075	S	244523	—	244531	0.57
3/4	7	1,000	66	CIR-5072	—	—	S	244540	0.57
3/4	7-5/8	450	27	CIR-5077	S	140290	S	275821	0.61
3/4	7-5/8	1,300	78	CIR-5076	—	278117	S	278125	0.61
3/4	8	500	28	CIR-5085	NS	244558	NS	244566	0.64
3/4	8	1,000	57	CIR-5080	—	—	S	281105	0.64
3/4	8	1,500	85	CIR-5081	—	—	—	281113	0.64
3/4	8	2,000	113	CIR-5082	—	—	S	281121	0.64
3/4	9-1/8	500	25	CIR-5091	NS	140302	S	275830	0.73
3/4	10	1,000	45	CIR-5100	—	—	S	281130	0.79
3/4	10	2,000	90	CIR-5102	—	—	S	244574	0.79
3/4	10-1/2	550	23	CIR-5106	NS	140310	NS	275848	0.83
3/4	10-1/2	2,000	85	CIR-5105	S	278133	S	278141	0.83
3/4	11-7/8	600	22	CIR-5118	NS	140329	S	275856	0.91
3/4	12	1,000	37	CIR-5120	—	—	S	281148	0.92
3/4	12	2,000	74	CIR-5121	—	—	S	281156	0.92
3/4	12	3,000	111	CIR-5122	—	—	—	281164	0.92
3/4	12	4,000	148	CIR-5124	—	—	S	244582	0.92
3/4	13-3/8	650	21	CIR-5135	NS	140337	S	275864	1.02
3/4	13-3/8	2,500	83	CIR-5134	—	—	S	278150	1.02
3/4	14	1,250	40	CIR-5141	—	—	—	244590	1.07
3/4	14	2,500	80	CIR-5142	—	—	—	244603	1.07

Specifications and Ordering Information

DIM (In.)		Watts	W/In ²	Model	120V		240V		Wt. (Lbs.)
Dia.	Sheath Length				Stock	PCN	Stock	PCN	
3/4" Diameter									
3/4	14	4,500	142	CIR-5144	—	—	—	244611	1.07
3/4	14-7/8	750	22	CIR-5148	S	140345	S	275872	1.14
3/4	15	1,500	44	CIR-5150	—	—	—	281172	1.15
3/4	16	1,800	49	CIR-5162	—	—	—	244620	1.23
3/4	16	4,700	128	CIR-5165	—	—	—	244638	1.23
3/4	16-1/4	800	22	CIR-5163	—	—	S	140353	—
3/4	17-3/4	850	21	CIR-5177	—	—	NS	275880	1.36
3/4	18	1,500	36	CIR-5180	—	—	—	281180	1.38
3/4	18	2,000	48	CIR-5182	—	—	—	244646	1.38
3/4	18	5,000	122	CIR-5185	—	—	—	244654	1.38
3/4	20	1,000	22	CIR-5204	—	—	NS	140361	—
3/4	20	1,150	25	CIR-5202	—	—	—	244662	1.53
3/4	20	2,000	44	CIR-5201	—	—	—	281199	1.53
3/4	20	2,250	49	CIR-5203	—	—	—	244670	1.53
3/4	20	3,850	84	CIR-5200	—	—	S	278168	1.53
3/4	20	5,000	110	CIR-5205	—	—	—	244689	1.53
3/4	22	1,150	23	CIR-5220	—	—	S	140370	—
3/4	24	1,250	23	CIR-5241	—	—	S	275899	1.84
3/4	24	1,375	25	CIR-5243	—	—	—	244697	1.84
3/4	24	2,500	42	CIR-5242	—	—	—	281201	1.84
3/4	24	2,750	50	CIR-5244	—	—	—	244700	1.84
3/4	24	4,600	83	CIR-5240	—	—	S	278176	1.84
3/4	24	5,000	85	CIR-5245	—	—	—	244718	1.84
3/4	30	2,500	37	CIR-5301	—	—	S	140388	—
3/4	30	4,800	69	CIR-5300	—	—	S	278184	2.3
3/4	36	2,500	30	CIR-5362	—	—	—	244726	2.75
3/4	36	4,900	59	CIR-5360	—	—	NS	278192	2.75
3/4	48	5,000	45	CIR-5480	—	—	S	278205	3.7

Stock Status: S = stock AS = assembly stock NS = non-stock
To Order—Specify model, PCN, watts, volts and quantity.

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