POLYIMIDE FILM INSULATED FLEXIBLE HEATERS



KHRA/KHLVA/KHA Series



- Rated Up to 200°C (392°F)
- ✓ Etched Foil Design
- ✓ 0.010" Max Thickness
- ∠ 2.5, 5, or 10 Watts/in²
- ✓ 115, 230[†] and 28V
- ✓ Optional Pressure-Sensitive Adhesive (PSA)

Specifications

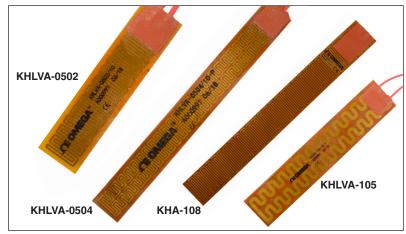
Operating Temperature:

-56 to 200°C (-70 to 392°F) for heaters without pressure sensitive adhesive (PSA). Maximum operating temperature for heaters with pressure sensitive adhesive is 120°C (248°F) Maximum Thickness: 0.010" except at lead wire exit

Wattage: 2.5, 5 or 10 W/in² Leads: PTFE insulated (UL 1180), 12" (305 mm) long (wire gauge varies with heater)

Dielectric Strength: 1250 Vac Minimum Bending Radius: 0.032"

† Most sizes available in 230V. Consult heaters sales and engineering.



Smaller than actual size

Polyimide film insulated heaters are available in a variety of shapes, sizes, and wattages. Wattage ratings are 2.5, 5, or 10 W/in² at 115, 230[†] or 28V

Polyimide film offers a high degree of resistance to chemicals, Flexable nature can fit into Intrinsic voids & can be applied very Easily.

KHRA Series, Round, 115 Volts

To Order					
Without PSA	With PSA	Diameter	Total Wattage for Watt Density		
Model No.	Model No.	in (cm)	5 W/in ²	10 W/in ²	
KHRA-2/(*)	KHRA-2/(*)-P	2 (5)	_	31.4	
KHRA-3/(*)	KHRA-3/(*)P	3 (8)	35.3	70.7	
KHRA-4/(*)	KHRA-4/(*)-P	4 (10)	62.8	126	
KHRA-5/(*)	KHRA-5/(*)-P	5 (13)	98.2	196	
KHRA-6/(*)	KHRA-6/(*)-P	6 (15)	141	283	
KHRA-8/(*)	KHRA-8/(*)-P	8 (20)	251	503	
KHRA-10/(*)	KHRA-10/(*)-P	10 (25)	393	785	
KHRA-12/(*)	KHRA-12/(*)-P	12 (30)	565	1131	

Note: Heaters are available in only the watt densities where total wattage is indicated. Ordering Example: KHLVA-104/5-P, 1 x 4" (2.5 x 10 cm), 28V, 5 W/in² Polyimide film heater

KHLVA Series. Rectangular 28 Volte

Rectangular, 28 Volts						
Without PSA	With PSA	Width, in (cm)	Length, in (cm)	Total Wattage for Watt Density		
Model No.	Model No.			2.5 W/in ²	5 W/in ²	10 W/in ²
KHLVA-0502/(*)	KHLVA-0502/(*)-P	0.5 (1)	2 (5)	_	5	10
KHLVA-0504/(*)	KHLVA-0504/(*)-P	0.5 (1)	4 (10)	5	10	20
KHLVA-101/(*)	KHLVA-101/(*)-P	1 (3)	1 (3)	_	5	10
KHLVA-102/(*)	KHLVA-102/(*)-P	1 (3)	2 (5)	5	10	20
KHLVA-103/(*)	KHLVA-103/(*)-P	1 (3)	3 (8)	7.5	15	30
KHLVA-104/(*)	KHLVA-104/(*)-P	1 (3)	4 (10)	10	20	40
KHLVA-105/(*)	KHLVA-105/(*)-P	1 (3)	5 (13)	12.5	25	50
KHLVA-202/(*)	KHLVA-202/(*)-P	2 (5)	2 (5)	10	20	40
KHLVA-203/(*)	KHLVA-203/(*)-P	2 (5)	3 (8)	15	30	60
KHLVA-204/(*)	KHLVA-204/(*)-P	2 (5)	4 (10)	20	40	80
KHLVA-205/(*)	KHLVA-205/(*)-P	2 (5)	5 (13)	25	50	100
KHLVA-303/(*)	KHLVA-303/(*)-P	3 (8)	3 (8)	22.5	45	90

Comes complete with operator's manual.
* Insert watt density: "2" for 2.5 W/in², "5" for 5 W/in² or "10" for 10 W/in².

Typical construction consists of an etched foil element of 0.001" thickness, which is encapsulated between two layers of 0.002" Polyimide film.

For rectangular heaters, lead wires exit centrally from the width (W) side. Leads exit round heaters radially.

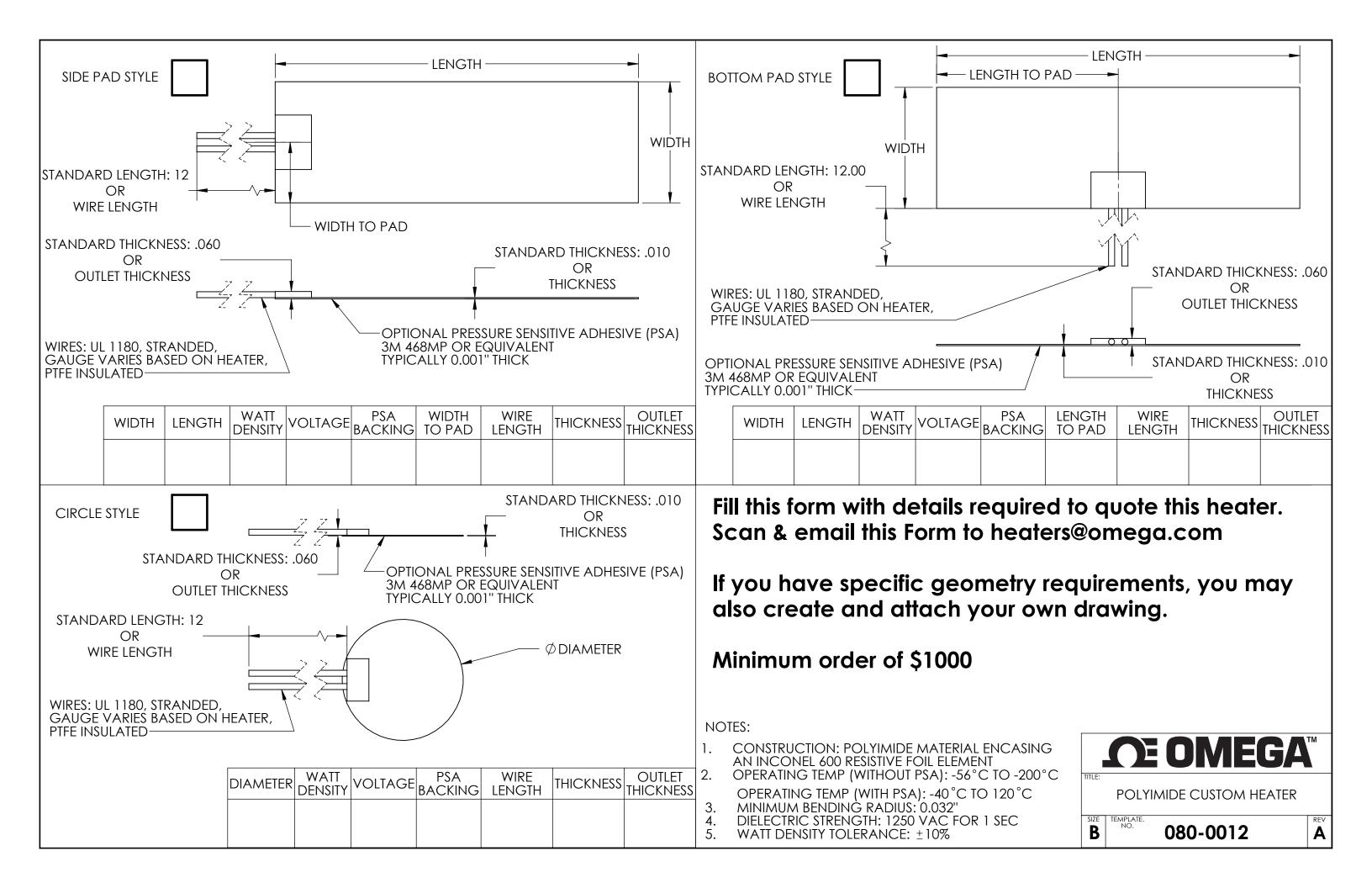
Pressure sensitive adhesive (PSA) is available as an option. The heaters can also be mechanically clamped or epoxy mounted by the user.

KHA Series Rectangular 115 Volte

To Order			ı			
Without PSA	With PSA	Width,	Length,	Total Wattage for Watt Density		
Model No.	Model No.	in (cm)	in (cm)	5 W/in²	10 W/in²	
_	KHA-102/(*)-P	1 (3)	2 (5)	_	30	
KHA-103/(*)	KHA-103/(*)-P	1 (3)	3 (8)	_	30	
KHA-104/(*)	KHA-104/(*)-P	1 (3)	4 (10)	20	40	
KHA-105/(*)	KHA-105/(*)-P	1 (3)	5 (13)	25	50	
KHA-106/(*)	KHA-106/(*)-P	1 (3)	6 (15)	30	60	
KHA-108/(*)	KHA-108/(*)-P	1 (3)	8 (20)	40	80	
KHA-110/(*)	KHA-110/(*)-P	1 (3)	10 (25)	50	100	
KHA-112/(*)	KHA-112/(*)-P	1 (3)	12 (30)	60	120	
KHA-202/(*)	KHA-202/(*)-P	2 (5)	2 (5)	20	40	
KHA-203/(*)	KHA-203/(*)-P	2 (5)	3 (8)	30	60	
KHA-204/(*)	KHA-204/(*)-P	2 (5)	4 (10)	40	80	
KHA-205/(*)	KHA-205/(*)-P	2 (5)	5 (13)	50	100	
KHA-206/(*)	KHA-206/(*)-P	2 (5)	6 (15)	60	120	
KHA-208/(*)	KHA-208/(*)-P	2 (5)	8 (20)	80	160	
KHA-210/(*)	KHA-210/(*)-P	2 (5)	10 (25)	100	200	
KHA-212/(*)	KHA-212/(*)-P	2 (5)	12 (30)	120	240	
KHA-303/(*)	KHA-303/(*)-P	3 (8)	3 (8)	45	90	
KHA-304/(*)	KHA-304/(*)-P	3 (8)	4 (10)	60	120	
KHA-305/(*)	KHA-305/(*)-P	3 (8)	5 (13)	75	150	
KHA-306/(*)	KHA-306/(*)-P	3 (8)	6 (15)	90	180	
KHA-308/(*)	KHA-308/(*)-P	3 (8)	8 (20)	120	240	
KHA-310/(*)	KHA-310/(*)-P	3 (8)	10 (25)	150	300	
KHA-312/(*)	KHA-312/(*)-P	3 (8)	12 (30)	180	360	
KHA-404/(*)	KHA-404/(*)-P	4 (10)	4 (10)	80	160	
KHA-405/(*)	KHA-405/(*)-P	4 (10)	5 (13)	100	200	
KHA-406/(*)	KHA-406/(*)-P	4 (10)	6 (20)	120	240	
KHA-408/(*)	KHA-408/(*)-P	4 (10)	8 (20)	160	320	
KHA-410/(*)	KHA-410/(*)-P	4 (10)	10 (25)	200	400	
KHA-412/(*)	KHA-410/(*)-P	4 (10)	12 (30)	240	480	
KHA-505/(*)	KHA-505/(*)-P	5 (13)	5 (13)	125	250	
KHA-505/() KHA-506/(*)	KHA-506/(*)-P	5 (13)	6 (15)	150	300	
KHA-508/(*)	 	5 (13)	8 (20)	200	400	
	KHA-508/(*)-P		` '		500	
KHA-510/(*)	KHA-510/(*)-P	5 (13)	10 (25)	250		
KHA-512/(*)	KHA-512/(*)-P	5 (13)	12 (30)	300	600	
KHA-606/(*)	KHA-606/(*)-P	6 (15)	6 (15)	180	360	
KHA-608/(*)	KHA-608/(*)-P	6 (15)	8 (20)	240	480	
KHA-610/(*)	KHA-610/(*)-P	6 (15)	10 (91)	300	600	
KHA-612/(*)	KHA-612/(*)-P	6 (15)	12 (91)	360	720	
KHA-808/(*)	KHA-808/(*)-P	8 (20)	8 (20)	320	640	
KHA-810/(*)	KHA-810/(*)-P	8 (20)	10 (25)	400	800	
KHA-812/(*)	KHA-812/(*)-P	8 (20)	12 (30)	480	960	
KHA-1010/(*)	KHA-1010/(*)-P	10 (25)	10 (91)	500	1000	
KHA-1012/(*)	KHA-1012/(*)-P	10 (25)	12 (30)	600	1200	
KHA-1212/(*)	KHA-1212/(*)-P	12 (30)	12 (30)	720	1440	

Note: Heaters are available in only the watt densities where total wattage is indicated.

Comes complete with operator's manual. * Insert watt density: "2" for 2.5 W/in², "5" for 5 W/in² or "10" for 10 W/in².





CUSTOM POLYIMIDE HEATER QUOTATION FORM

Tel: 800-826-6342 E-mail: <u>Heaters@omega.com</u>

Name:	2:					
Compa	oany:					
	ess:					
State/Province:						
Phone:	e:	E-mail:		Fax:		
4)	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
	What is the application?					
	Material to be heated:					
3)	Quantity required?					
4)	Will this be a one-time order or recurring order?					
5)	Other instrumentation to be quoted:					
	Testing or other required documentation:					
	Lead-time constrained:					
	All custom heaters are non-returna					

FILL Dimensional sketch from reverse side