

Home » Process Control » Heaters and Valves » Heaters » KHRA, KHLVA, KHA Series

Polyimide Insulated Flexible Heaters

KHRA, KHLVA, KHA Series



€47,50 KHLVA-101/5

- Rated up to 302°F (150°C)
- Etched Foil Design
- 0.010" Maximum Thickness
- 2.5, 5, or 10 Watts/In²
- 115 Volts and 28 Volts
- Optional Pressure- Sensitive Adhesive (PSA)
- Silicone rubber used as a strain relief

Description

Polyimide Film insulated (also known as Kapton) flexible heaters are available in a variety of shapes, sizes, and wattages. Wattage ratings are 2.5, 5, or 10W/in² at 115 or 28 V. Polyimide Film offers a high degree of resistance to chemicals. Flexible nature can fit into Intrinsic voids & can be applied very Easily

Operating temperature without PSA is -57°C to 150°C, and with PSA, these heaters operate at temperatures between -40°C and 149°C

Typical construction consists of an etched foil element of 0.0005" or 0.0001" thickness which is encapsulated between two layers of 0.002" Polyimide Film and 0.001" FEP adhesive.

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KHLVA	Series.	Rectangul	iar. 28 i	VOITS.

Without PSA	With PSA	Width, In.(cm)	Length, In. (cm)	Total Wattage for Watt Density		
Model No.	Model No.			2.5W/in ²	5W/in ²	10W/in ²
KHLVA-0502/(*)	KHLVA-0502/(*)-P	0.5 (1.27)	2 (5.08)	_	5	10
KHLVA-0504/(*)	KHLVA-0504/(*)-P	0.5 (1.27)	4 (10.16)	5	10	20
KHLVA-101/(*)	KHLVA-101/(*)-P	1 (2.54)	1 (2.54)	_	5	10
KHLVA-102/(*)	KHLVA-102/(*)-P	1 (2.54)	2 (5.08)	5	10	20
KHLVA-103/(*)	KHLVA-103/(*)-P	1 (2.54)	3 (7.62)	7.5	15	30
KHLVA-104/(*)	KHLVA-104/(*)-P	1 (2.54)	4 (10.16)	10	20	40
KHLVA-105/(*)	KHLVA-105/(*)-P	1 (2.54)	5 (12.7)	12.5	25	50
KHLVA-202/(*)	KHLVA-202/(*)-P	2 (5.08)	2 (5.08)	10	20	40
KHLVA-203/(*)	KHLVA-203/(*)-P	2 (5.08)	3 (7.62)	15	30	60
KHLVA-204/(*)	KHLVA-204/(*)-P	2 (5.08)	4 (10.16)	20	40	80
KHLVA-205/(*)	KHLVA-205/(*)-P	2 (5.08)	5 (12.7)	25	50	100
KHLVA-303/(*)	KHLVA-303/(*)-P	3 (7.62)	3 (7.62)	22.5	45	90

KHA Series, Rectangular, 115 Volts

Without PSA	With PSA	Width, In.(cm)	Length, In.(cm)	Total Wattage for Watt Density	
Model No.	Model No.			5W/in ²	10W/in ²
KHA-102/(*)	KHA-102/(*)-P	1 (2.54)	2 (5.08)	_	30
KHA-103/(*)	KHA-103/(*)-P	1 (2.54)	3 (7.62)	_	30

https://www.omega.nl/pptst/KHRA-KHLVA-KHA-SERIES.html

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KHA-106/(*) KHA-106/(*)-P 1 (2.54) 6 (15.24) 30 60 KHA-108/(*) KHA-108/(*)-P 1 (2.54) 8 (20.32) 40 80 KHA-110/(*) KHA-110/(*)-P 1 (2.54) 10 (25.4) 50 100 KHA-112/(*) KHA-112/(*)-P 1 (2.54) 12 (30.48) 60 120 KHA-202/(*) KHA-202/(*)-P 2 (5.08) 2 (5.08) 20 40 KHA-203/(*) KHA-202/(*)-P 2 (5.08) 3 (7.62) 30 60 KHA-203/(*) KHA-204/(*)-P 2 (5.08) 3 (7.62) 30 60 KHA-206/(*) KHA-206/(*)-P 2 (5.08) 5 (12.7) 50 100 KHA-206/(*) KHA-206/(*)-P 2 (5.08) 8 (20.32) 80 100 KHA-206/(*) KHA-210/(*)-P 2 (5.08) 12 (30.48) 120 240 KHA-303/(*) KHA-303/(*)-P 3 (7.62) 3 (7.62) 4 (10.16) 60 120 KHA-304/(*) KHA-304/(*)-P 3 (7.62) 5 (12.7)	KHA-104/(*)	KHA-104/(*)-P	1 (2.54)	4 (10.16)	20	40
KHA-108/(*) KHA-108/(*)-P 1 (2.54) 8 (20.32) 40 80 KHA-110/(*) KHA-110/(*)-P 1 (2.54) 10 (25.4) 50 100 KHA-110/(*) KHA-110/(*)-P 1 (2.54) 10 (25.4) 50 100 KHA-202/(*) KHA-202/(*)-P 2 (5.08) 2 (5.08) 20 40 KHA-203/(*) KHA-203/(*)-P 2 (5.08) 3 (7.62) 30 60 KHA-204/(*) KHA-204/(*)-P 2 (5.08) 4 (10.16) 40 80 KHA-206/(*) KHA-206/(*)-P 2 (5.08) 6 (15.24) 60 120 KHA-206/(*) KHA-206/(*)-P 2 (5.08) 6 (15.24) 60 120 KHA-206/(*) KHA-206/(*)-P 2 (5.08) 10 (25.4) 100 200 KHA-206/(*) KHA-206/(*)-P 2 (5.08) 10 (25.4) 100 20 KHA-212/(*) KHA-206/(*)-P 3 (7.62) 3 (7.62) 4 (10.16) 6 120 KHA-304/(*) KHA-306/(*)-P 3 (7.62) 4 (10.16)	KHA-105/(*)	KHA-105/(*)-P	1 (2.54)	5 (12.7)	25	50
KHA-110(*) KHA-110(*)-P 1 (2.54) 10 (25.4) 50 100 KHA-112(*) KHA-112(*)-P 1 (2.54) 12 (30.48) 60 120 KHA-202(*) KHA-202(*)-P 2 (5.08) 2 (5.08) 20 40 KHA-203(*) KHA-203(*)-P 2 (5.08) 3 (7.62) 30 60 KHA-204(*) KHA-204(*)-P 2 (5.08) 3 (7.62) 30 60 KHA-205(*) KHA-205(*)-P 2 (5.08) 5 (12.7) 50 100 KHA-206(*) KHA-206(*)-P 2 (5.08) 6 (15.24) 60 120 KHA-207(*) KHA-208(*)-P 2 (5.08) 10 (25.4) 100 200 KHA-210(*) KHA-208(*)-P 2 (5.08) 12 (30.48) 120 240 KHA-307(*) KHA-303(*)-P 3 (7.62) 3 (7.62) 4 (10.16) 60 120 KHA-306(*) KHA-306(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-306(*) KHA-306(*)-P 3 (7.62) 6 (15.24) 90	KHA-106/(*)	KHA-106/(*)-P	1 (2.54)	6 (15.24)	30	60
KHA-112(*) KHA-112(*)-P 1 (2.54) 12 (30.48) 60 120 KHA-202(*)** KHA-202(*)-P 2 (5.08) 2 (5.08) 20 40 KHA-202(*)** KHA-202(*)-P 2 (5.08) 3 (7.62) 30 60 KHA-203(*)** KHA-204(*)-P 2 (5.08) 3 (7.62) 30 60 KHA-204(*)** KHA-204(*)-P 2 (5.08) 4 (10.16) 40 80 KHA-205(*)** KHA-205(*)-P 2 (5.08) 5 (12.7) 50 100 KHA-208(*)** KHA-208(*)-P 2 (5.08) 8 (20.32) 80 160 KHA-210(*)** KHA-212(*)-P 2 (5.08) 10 (25.4) 100 200 KHA-303(*)** KHA-310(*)-P 2 (5.08) 10 (25.4) 100 200 KHA-304(*)** KHA-304(*)-P 3 (7.62) 3 (7.62) 4 (10.16) 60 120 KHA-306(*)** KHA-306(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-312(*)** KHA-312(*)-P 3 (7.62) 10 (25.4)	KHA-108/(*)	KHA-108/(*)-P	1 (2.54)	8 (20.32)	40	80
KHA-202(*)* KHA-202(*)*-P 2 (5.08) 2 (5.08) 2 0 40 KHA-203(*)* KHA-203(*)*-P 2 (5.08) 3 (7.62) 30 00 KHA-204(*)* KHA-204(*)*-P 2 (5.08) 3 (7.62) 30 00 KHA-205(*)* KHA-205(*)*-P 2 (5.08) 4 (10.16) 40 80 KHA-206(*)* KHA-206(*)*-P 2 (5.08) 5 (12.7) 50 100 KHA-206(*)* KHA-206(*)*-P 2 (5.08) 6 (15.24) 60 120 KHA-210(*)* KHA-210(*)*-P 2 (5.08) 10 (25.4) 100 200 KHA-310(*)* KHA-303(*)*-P 2 (5.08) 12 (30.48) 120 240 KHA-303(*)* KHA-303(*)*-P 3 (7.62) 3 (7.62) 4 (10.16) 60 120 KHA-305(*)* KHA-305(*)*-P 3 (7.62) 5 (12.7) 75 150 KHA-306(*)* KHA-306(*)*-P 3 (7.62) 10 (25.4) 190 180 KHA-312(*)* KHA-308(*)*-P 3 (7.62) 12 (30.48)<	KHA-110/(*)	KHA-110/(*)-P	1 (2.54)	10 (25.4)	50	100
KHA-203(*) KHA-204(*)-P 2 (5.08) 3 (7.62) 30 60 KHA-204(*) KHA-204(*)-P 2 (5.08) 4 (10.16) 40 80 KHA-205(*) KHA-205(*)-P 2 (5.08) 5 (12.7) 50 100 KHA-206(*) KHA-208(*)-P 2 (5.08) 6 (15.24) 60 120 KHA-206(*) KHA-200(*)-P 2 (5.08) 8 (20.32) 80 160 KHA-210(*) KHA-210(*)-P 2 (5.08) 10 (25.4) 100 200 KHA-303(*) KHA-212(*)-P 2 (5.08) 12 (30.48) 120 240 KHA-303(*) KHA-303(*)-P 3 (7.62) 3 (7.62) 45 90 KHA-306(*)-P KHA-308(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-308(*) KHA-308(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-312(*) KHA-308(*)-P 3 (7.62) 10 (25.4) 90 180 KHA-312(*) KHA-312(*)-P 3 (7.62) 10 (25.4) 150 300	KHA-112/(*)	KHA-112/(*)-P	1 (2.54)	12 (30.48)	60	120
KHA-204/**(*) KHA-204/**(*) Value (*) 4 (10.16) 40 80 KHA-205/*(*) KHA-205/*(*) KHA-205/*(*) P 2 (5.08) 5 (12.7) 50 100 KHA-206/*(*) KHA-206/*(*) KHA-208/*(*) E (5.08) 5 (12.7) 50 100 KHA-206/*(*) KHA-200/*(*) KHA-200/*(*) R (3.08) 10 (25.4) 100 200 KHA-212/*(*) KHA-212/*(*) P 2 (5.08) 12 (30.48) 120 240 KHA-303/*(*) KHA-303/*(*) R (3.7.62) 3 (7.62) 45 90 KHA-305/*(*) KHA-305/*(*) KHA-305/*(*) KHA-305/*(*) 90 180 KHA-308/*(*) KHA-308/*(*) 2 (7.62) 5 (12.7) 75 150 KHA-308/*(*) KHA-308/*(*) R (3.7.62) 3 (7.62) 10 (25.4) 90 180 KHA-312/*(*) KHA-312/*(*) R (3.7.62) 3 (7.62) 10 (25.4) 150 300 KHA-312/*(*)<	KHA-202/(*)	KHA-202/(*)-P	2 (5.08)	2 (5.08)	20	40
KHA-205/(*) KHA-205/(*)-P 2 (5.08) 5 (12.7) 50 100 KHA-206/(*) KHA-206/(*)-P 2 (5.08) 6 (15.24) 60 120 KHA-208/(*) KHA-206/(*)-P 2 (5.08) 8 (20.32) 80 160 KHA-210/(*) KHA-210/(*)-P 2 (5.08) 10 (25.4) 100 200 KHA-212/(*) KHA-212/(*)-P 2 (5.08) 12 (30.48) 120 240 KHA-303/(*) KHA-303/(*)-P 3 (7.62) 3 (7.62) 45 90 KHA-306/(*) KHA-306/(*)-P 3 (7.62) 4 (10.16) 60 120 KHA-306/(*) KHA-306/(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-308/(*) KHA-308/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 1	KHA-203/(*)	KHA-203/(*)-P	2 (5.08)	3 (7.62)	30	60
KHA-206/(*) KHA-206/(*)-P 2 (5.08) 6 (15.24) 60 120 KHA-208/(*) KHA-208/(*)-P 2 (5.08) 8 (20.32) 80 160 KHA-210/(*) KHA-210/(*)-P 2 (5.08) 10 (25.4) 100 200 KHA-212/(*) KHA-212/(*)-P 2 (5.08) 12 (30.48) 120 240 KHA-303/(*) KHA-303/(*)-P 3 (7.62) 3 (7.62) 45 90 KHA-306/(*) KHA-306/(*)-P 3 (7.62) 3 (7.62) 4 (10.16) 60 120 KHA-306/(*) KHA-306/(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-308/(*) KHA-308/(*)-P 3 (7.62) 8 (20.32) 120 240 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-312/(*) KHA-312/(*)-P 4 (10.16) 4	KHA-204/(*)	KHA-204/(*)-P	2 (5.08)	4 (10.16)	40	80
KHA-208/(*) KHA-208/(*)-P 2 (5.08) 8 (20.32) 80 160 KHA-210/(*) KHA-210/(*)-P 2 (5.08) 10 (25.4) 100 200 KHA-212/(*) KHA-212/(*)-P 2 (5.08) 12 (30.48) 120 240 KHA-303/(*) KHA-303/(*)-P 3 (7.62) 3 (7.62) 45 90 KHA-304/(*)-P 3 (7.62) 4 (10.16) 60 120 KHA-305/(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-306/(*) KHA-306/(*)-P 3 (7.62) 6 (15.24) 90 180 KHA-308/(*)-P 3 (7.62) 8 (20.32) 120 240 KHA-310/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*)-P 4 (10.16) 4 (10.16) 80 160 300 KHA-40/(*)-P 4 (10.16) 5 (12.7) 100 200 400 KHA-408/(*)-P 4 (10.16) 5 (12.7) 100 20 400 KHA-408/(*)-P 4 (10.16) 10 (25.4) <td< td=""><td>KHA-205/(*)</td><td>KHA-205/(*)-P</td><td>2 (5.08)</td><td>5 (12.7)</td><td>50</td><td>100</td></td<>	KHA-205/(*)	KHA-205/(*)-P	2 (5.08)	5 (12.7)	50	100
KHA-210/(*) KHA-210/(*)-P 2 (5.08) 10 (25.4) 100 200 KHA-212/(*) KHA-212/(*)-P 2 (5.08) 12 (30.48) 120 240 KHA-303/(*) KHA-303/(*)-P 3 (7.62) 3 (7.62) 45 90 KHA-304/(*) KHA-304/(*)-P 3 (7.62) 4 (10.16) 60 120 KHA-305/(*) KHA-305/(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-308/(*) KHA-306/(*)-P 3 (7.62) 6 (15.24) 90 180 KHA-308/(*) KHA-308/(*)-P 3 (7.62) 8 (20.32) 120 240 KHA-310/(*) KHA-312/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*) KHA-312/(*)-P 4 (10.16) 4 (10.16) 80 160 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-408/(*) KHA-408/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4)	KHA-206/(*)	KHA-206/(*)-P	2 (5.08)	6 (15.24)	60	120
KHA-212/(*) KHA-212/(*)-P 2 (5.08) 12 (30.48) 120 240 KHA-303/(*) KHA-303/(*)-P 3 (7.62) 3 (7.62) 45 90 KHA-303/(*) KHA-304/(*)-P 3 (7.62) 4 (10.16) 60 120 KHA-305/(*) KHA-305/(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-306/(*) KHA-306/(*)-P 3 (7.62) 6 (15.24) 90 180 KHA-308/(*) KHA-308/(*)-P 3 (7.62) 8 (20.32) 120 240 KHA-310/(*) KHA-310/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-404/(*) KHA-404/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 5 (12.7) 100 20 KHA-408/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 20 400 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 12 (30.48)	KHA-208/(*)	KHA-208/(*)-P	2 (5.08)	8 (20.32)	80	160
KHA-303/(*) KHA-303/(*)-P 3 (7.62) 3 (7.62) 45 90 KHA-304/(*) KHA-304/(*)-P 3 (7.62) 4 (10.16) 60 120 KHA-305/(*) KHA-305/(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-306/(*) KHA-306/(*)-P 3 (7.62) 6 (15.24) 90 180 KHA-308/(*) KHA-306/(*)-P 3 (7.62) 8 (20.32) 120 240 KHA-311/(*) KHA-310/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-404/(*) KHA-404/(*)-P 4 (10.16) 4 (10.16) 80 160 KHA-406/(*) KHA-405/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 6 (15.24) 120 240 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 5 (12.7) 1	KHA-210/(*)	KHA-210/(*)-P	2 (5.08)	10 (25.4)	100	200
KHA-304/(*) KHA-304/(*)-P 3 (7.62) 4 (10.16) 60 120 KHA-305/(*) KHA-305/(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-306/(*) KHA-306/(*)-P 3 (7.62) 6 (15.24) 90 180 KHA-308/(*) KHA-308/(*)-P 3 (7.62) 8 (20.32) 120 240 KHA-310/(*) KHA-310/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-404/(*) KHA-404/(*)-P 4 (10.16) 4 (10.16) 80 160 KHA-405/(*) KHA-406/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-412/(*) KHA-412/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-506/(*) KHA-505/(*)-P 5 (12.7) 5 (12.7)	KHA-212/(*)	KHA-212/(*)-P	2 (5.08)	12 (30.48)	120	240
KHA-305/(*) KHA-306/(*)-P 3 (7.62) 5 (12.7) 75 150 KHA-306/(*) KHA-306/(*)-P 3 (7.62) 6 (15.24) 90 180 KHA-306/(*) KHA-306/(*)-P 3 (7.62) 8 (20.32) 120 240 KHA-310/(*) KHA-310/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-404/(*) KHA-404/(*)-P 4 (10.16) 4 (10.16) 80 160 KHA-405/(*) KHA-406/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-406/(*) KHA-408/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-412/(*) KHA-412/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 8 (20.32) 200 400 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 8 (20.32) 200 400 KHA-506/(*) KHA-506/(*)-P 6 (15.24) 12 (30.48) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 300 600 KHA-608/(*) KHA-606/(*)-P 6 (15.24) 300 600 KHA-608/(*) KHA-606/(*)-P 8 (20.32) 320 640 KHA-608/(*) KHA-612/(*)-P 8 (20.32) 320 640 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 320 640 KHA-1010/(*) KHA-810/(*)-P 8 (20.32) 320 640 KHA-1010/(*) KHA-1010/(*)-P 8 (20.3	KHA-303/(*)	KHA-303/(*)-P	3 (7.62)	3 (7.62)	45	90
KHA-306/(*) KHA-306/(*)-P 3 (7.62) 6 (15.24) 90 180 KHA-308/(*) KHA-308/(*)-P 3 (7.62) 8 (20.32) 120 240 KHA-310/(*) KHA-310/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-404/(*) KHA-404/(*)-P 4 (10.16) 4 (10.16) 80 160 KHA-405/(*) KHA-406/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-410/(*) KHA-408/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 8 (20.32) 200 400 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 8 (20.32) 200 400 KHA-510/(*) KHA-506/(*)-P 6 (15.24) 150 300 KHA-510/(*) KHA-606/(*)-P 6 (15.24) 150 300 KHA-610/(*) KHA-606/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-610/(*) KHA-608/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-610/(*) KHA-608/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-610/(*) KHA-608/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-808/(*) KHA-610/(*)-P 8 (20.32) 320 640 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-810/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000	KHA-304/(*)	KHA-304/(*)-P	3 (7.62)	4 (10.16)	60	120
KHA-308/(*) KHA-308/(*)-P 3 (7.62) 8 (20.32) 120 240 KHA-310/(*) KHA-310/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-404/(*) KHA-405/(*)-P 4 (10.16) 4 (10.16) 80 160 KHA-405/(*) KHA-406/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 6 (15.24) 120 240 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-505/(*) KHA-506/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-508/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4)	KHA-305/(*)	KHA-305/(*)-P	3 (7.62)	5 (12.7)	75	150
KHA-310/(*) KHA-310/(*)-P 3 (7.62) 10 (25.4) 150 300 KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-404/(*) KHA-404/(*)-P 4 (10.16) 4 (10.16) 80 160 KHA-405/(*) KHA-405/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 6 (15.24) 120 240 KHA-408/(*) KHA-408/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-412/(*) KHA-412/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-505/(*) KHA-505/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-508/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-606/(*) KHA-610/(*)-P 6 (15.24) 8 (20.32)	KHA-306/(*)	KHA-306/(*)-P	3 (7.62)	6 (15.24)	90	180
KHA-312/(*) KHA-312/(*)-P 3 (7.62) 12 (30.48) 180 360 KHA-404/(*) KHA-404/(*)-P 4 (10.16) 4 (10.16) 80 160 KHA-405/(*) KHA-406/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 6 (15.24) 120 240 KHA-408/(*) KHA-408/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-505/(*) KHA-505/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-508/(*) KHA-506/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-606/(*) KHA-606/(*)-P 5 (12.7) 10 (25.4) 180 360 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 8 (20.32)	KHA-308/(*)	KHA-308/(*)-P	3 (7.62)	8 (20.32)	120	240
KHA-404/(*) KHA-404/(*)-P 4 (10.16) 4 (10.16) 80 160 KHA-405/(*) KHA-405/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 6 (15.24) 120 240 KHA-408/(*) KHA-408/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-412/(*) KHA-412/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-505/(*) KHA-505/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-508/(*) KHA-508/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-606/(*) KHA-608/(*)-P 6 (15.24) 10 (25.4) 180 360 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 10 (25.4)	KHA-310/(*)	KHA-310/(*)-P	3 (7.62)	10 (25.4)	150	300
KHA-405/(*) KHA-405/(*)-P 4 (10.16) 5 (12.7) 100 200 KHA-406/(*) KHA-406/(*)-P 4 (10.16) 6 (15.24) 120 240 KHA-408/(*) KHA-408/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-412/(*) KHA-412/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-505/(*) KHA-505/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-508/(*) KHA-508/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-610/(*) KHA-610/(*)-P 5 (12.7) 12 (30.48) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 18 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4)	KHA-312/(*)	KHA-312/(*)-P	3 (7.62)	12 (30.48)	180	360
KHA-406/(*) KHA-406/(*)-P 4 (10.16) 6 (15.24) 120 240 KHA-408/(*) KHA-408/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-412/(*) KHA-412/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-505/(*) KHA-505/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-508/(*) KHA-508/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 12 (30.48) 300 600 KHA-610/(*) KHA-606/(*)-P 5 (12.7) 12 (30.48) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 6 (15.24) 180 360 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 8 (20.32)	KHA-404/(*)	KHA-404/(*)-P	4 (10.16)	4 (10.16)	80	160
KHA-408/(*) KHA-408/(*)-P 4 (10.16) 8 (20.32) 160 320 KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-412/(*) KHA-412/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-505/(*) KHA-505/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-508/(*) KHA-508/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-606/(*) KHA-610/(*)-P 5 (12.7) 12 (30.48) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 6 (15.24) 180 360 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-612/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-808/(*) KHA-612/(*)-P 8 (20.32) 8 (20.32) 320 640 KHA-810/(*) KHA-808/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-812/(*) KHA-812/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000	KHA-405/(*)	KHA-405/(*)-P	4 (10.16)	5 (12.7)	100	200
KHA-410/(*) KHA-410/(*)-P 4 (10.16) 10 (25.4) 200 400 KHA-412/(*) KHA-412/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-505/(*) KHA-505/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-508/(*) KHA-508/(*)-P 5 (12.7) 8 (20.32) 200 400 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-612/(*) KHA-606/(*)-P 6 (15.24) 300 600 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 6 (15.24) 180 360 KHA-610/(*) KHA-600/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-612/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 8 (20.32) 320 640 KHA-810/(*) KHA-808/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-810/(*) KHA-812/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 12 (30.48) 500 1200	KHA-406/(*)	KHA-406/(*)-P	4 (10.16)	6 (15.24)	120	240
KHA-412/(*) KHA-412/(*)-P 4 (10.16) 12 (30.48) 240 480 KHA-505/(*) KHA-505/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-508/(*) KHA-508/(*)-P 5 (12.7) 8 (20.32) 200 400 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-512/(*) KHA-512/(*)-P 5 (12.7) 12 (30.48) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 6 (15.24) 180 360 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-808/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-812/(*) KHA-812/(*)-P 8 (20.32) 12 (30.48) <td>KHA-408/(*)</td> <td>KHA-408/(*)-P</td> <td>4 (10.16)</td> <td>8 (20.32)</td> <td>160</td> <td>320</td>	KHA-408/(*)	KHA-408/(*)-P	4 (10.16)	8 (20.32)	160	320
KHA-505/(*) KHA-505/(*)-P 5 (12.7) 5 (12.7) 125 250 KHA-506/(*) KHA-506/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-508/(*) KHA-508/(*)-P 5 (12.7) 8 (20.32) 200 400 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-512/(*) KHA-512/(*)-P 5 (12.7) 12 (30.48) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 180 360 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-612/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-812/(*) RHA-812/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (KHA-410/(*)	KHA-410/(*)-P	4 (10.16)	10 (25.4)	200	400
KHA-506/(*) KHA-506/(*)-P 5 (12.7) 6 (15.24) 150 300 KHA-508/(*) KHA-508/(*)-P 5 (12.7) 8 (20.32) 200 400 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-512/(*) KHA-512/(*)-P 5 (12.7) 12 (30.48) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 6 (15.24) 180 360 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-612/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1010/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-412/(*)	KHA-412/(*)-P	4 (10.16)	12 (30.48)	240	480
KHA-508/(*) KHA-508/(*)-P 5 (12.7) 8 (20.32) 200 400 KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-512/(*) KHA-512/(*)-P 5 (12.7) 12 (30.48) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 180 360 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-612/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-505/(*)	KHA-505/(*)-P	5 (12.7)	5 (12.7)	125	250
KHA-510/(*) KHA-510/(*)-P 5 (12.7) 10 (25.4) 250 500 KHA-512/(*) KHA-512/(*)-P 5 (12.7) 12 (30.48) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 6 (15.24) 180 360 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-612/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-506/(*)	KHA-506/(*)-P	5 (12.7)	6 (15.24)	150	300
KHA-512/(*) KHA-512/(*)-P 5 (12.7) 12 (30.48) 300 600 KHA-606/(*) KHA-606/(*)-P 6 (15.24) 180 360 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-612/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-508/(*)	KHA-508/(*)-P	5 (12.7)	8 (20.32)	200	400
KHA-606/(*) KHA-606/(*)-P 6 (15.24) 180 360 KHA-608/(*) KHA-608/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-612/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-812/(*) KHA-812/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-510/(*)	KHA-510/(*)-P	5 (12.7)	10 (25.4)	250	500
KHA-608/(*) KHA-608/(*)-P 6 (15.24) 8 (20.32) 240 480 KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-612/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-812/(*) KHA-812/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-512/(*)	KHA-512/(*)-P	5 (12.7)	12 (30.48)	300	600
KHA-610/(*) KHA-610/(*)-P 6 (15.24) 10 (25.4) 300 600 KHA-612/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-812/(*) KHA-812/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-606/(*)	KHA-606/(*)-P	6 (15.24)	6 (15.24)	180	360
KHA-612/(*) KHA-612/(*)-P 6 (15.24) 12 (30.48) 360 720 KHA-808/(*) KHA-808/(*)-P 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-812/(*) KHA-812/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-608/(*)	KHA-608/(*)-P	6 (15.24)	8 (20.32)	240	480
KHA-808/(*) KHA-808/(*)-P 8 (20.32) 320 640 KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-812/(*) KHA-812/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-610/(*)	KHA-610/(*)-P	6 (15.24)	10 (25.4)	300	600
KHA-810/(*) KHA-810/(*)-P 8 (20.32) 10 (25.4) 400 800 KHA-812/(*) KHA-812/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-612/(*)	KHA-612/(*)-P	6 (15.24)	12 (30.48)	360	720
KHA-812/(*) KHA-812/(*)-P 8 (20.32) 12 (30.48) 480 960 KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-808/(*)	KHA-808/(*)-P	8 (20.32)	8 (20.32)	320	640
KHA-1010/(*) KHA-1010/(*)-P 10 (25.4) 10 (25.4) 500 1000 KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-810/(*)	KHA-810/(*)-P	8 (20.32)	10 (25.4)	400	800
KHA-1012/(*) KHA-1012/(*)-P 10 (25.4) 12 (30.48) 600 1200	KHA-812/(*)	KHA-812/(*)-P	8 (20.32)	12 (30.48)	480	960
	KHA-1010/(*)	KHA-1010/(*)-P	10 (25.4)	10 (25.4)	500	1000
KHA-1212/(*) KHA-1212/(*)-P 12 (30.48) 12 (30.48) 720 144	KHA-1012/(*)	KHA-1012/(*)-P	10 (25.4)	12 (30.48)	600	1200
	KHA-1212/(*)	KHA-1212/(*)-P	12 (30.48)	12 (30.48)	720	144

Comes with complete operator's manual.

/*Insert watt density: two for 2.5 W/in² , 5 for 5 W/in² or 10 for 10W/in². **Note:** Heaters are available in only the watt densities where total wattage is indicated.

KHRA Series, Round, 115 Volts

Without PSA	With PSA	Dia.	Total Wattage for Watt Density	
Model No.	Model No.	In.(cm)	5W/in ²	10W/in ²

https://www.omega.nl/pptst/KHRA-KHLVA-KHA-SERIES.html

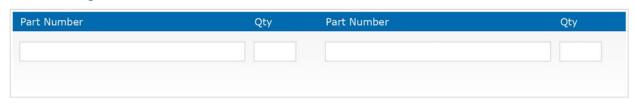
KHRA-2/(*)	KHRA-2/(*)-P	2 (5.08)	_	31.4
KHRA-3/(*)	KHRA-3/(*)P	3 (7.62)	35.3	70.7
KHRA-4/(*)	KHRA-4/(*)-P	4 (10.16)	62.8	126
KHRA-5/(*)	KHRA-5/(*)-P	5 (12.7)	98.2	196
KHRA-6/(*)	KHRA-6/(*)-P	6 (15.24)	141	283
KHRA-8/(*)	KHRA-8/(*)-P	8 (20.32)	251	503
KHRA-10/(*)	KHRA-10/(*)-P	10 (25.4)	393	785
KHRA-12/(*)	KHRA-12/(*)-P	12 (30.48)	565	1131

Comes with complete operator's manual.

- /(*) Insert watt density: 2 for 2.5 W/in², 5 for 5 W/in² or 10 for 10W/in².
- ** Heaters with pressure sensitive adhesive: maximum operating temperature is 250°F (120°C).

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

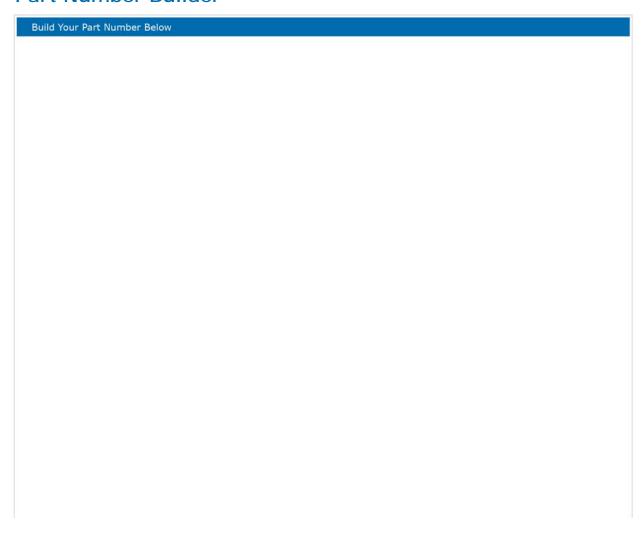
Order By Part Number



† All amounts shown in EUR

Ordering Example: (1) KHA-110/5 Polyimide Film Heater, €49.00 plus (1) KHA-110/5-P Polyimide Film Heater, €69.00, \in 49.00 + 69.00 = \in 118.00

Part Number Builder



```
(1)
   KHRA
                      12
Contact our sales team for pricing: sales@omega.nl
Option Descriptions:
(1) Series select from:
KHRA for KHRA Series Available in 5 and 10 W/in^2
KHLVA for KHLVA Series Available in 2.5 and 5 and 10 W/in^2
KHA for KHA Series Available in 5 and 10 W/in^2
(2) Diameter (cm) Width (cm) and Length (cm) select from: 2 for Diameter 5 cm (2 in) for KHRA model
3 for Diameter 7.6 cm (3 in) for KHRA model
4 for Diameter 10 cm (4 in) for KHRA model
5 for Diameter 13 cm (5 in) for KHRA model
6 for Diameter 15 cm (6 in) for KHRA model
7 for Diameter 18 cm (7 in) for KHRA model
8 for Diameter 20 cm (8 in) for KHRA model
9 for Diameter 23 cm (9 in) for KHRA model
10 for Diameter 25 cm (10 in) for KHRA model
11 for Diameter 28 cm (11 in) for KHRA model
12 for Diameter 30 cm (12 in) for KHRA model
101 for Width 2.5 cm (1 in) Length 2.5 cm (1 in) for KHLVA model
102 for Width 2.5 cm (1 \text{ in}) Length 5 cm (2 \text{ in}) for KHLVA model 103 for Width 2.5 cm (1 \text{ in}) Length 7.6 cm (3 \text{ in}) for KHLVA and KHA models
104 for Width 2.5 cm (1 in) Length 10 cm (4 in) KHLVA and KHA models
105 for Width 2.5 cm (1 in) Length 13 cm (5 in) KHLVA and KHA models
106 for Width 2.5 cm (1 in) Length 15 cm (6 in) for KHA model
108 for Width 2.5 cm (1 in) Length 20 cm (8 in) for KHA model
110 for Width 2.5 cm (1 in) Length 25 cm (10 in) for KHA model
112 for Width 2.5 cm (1 in) Length 30 cm (12 in) for KHA model
202 for Width 5 cm (2 in) Length 5 cm (2 in) KHLVA and KHAA models
203 for Width 5 cm (2 in) Length 7.6 cm (3 in) for KHA model
204 for Width 5 cm (2 in) Length 10 cm (4 in) for KHA model
205 for Width 5 cm (2 in) Length 13 cm (5 in) for KHA model
206 for Width 5 cm (2 in) Length 15 cm (6 in) for KHA model
208 for Width 5 cm (2 in) Length 20 cm (8 in) for KHA model
210 for Width 5 cm (2 in) Length 25 cm (10 in) for KHA model
212 for Width 5 cm (2 in) Length 30 cm (12 in) for KHA model
303 for Width 7.6 cm (3 in) Length 7.6 cm (3 in) for KHA model
304 for Width 7.6 cm (3 in) Length 10 cm (4 in) for KHA model
305 for Width 7.6 cm (3 in) Length 13 cm (5 in) for KHA model
306 for Width 7.6 cm (3 in) Length 15 cm (6 in) for KHA model 308 for Width 7.6 cm (3 in) Length 20 cm (8 in) for KHA model
310 for Width 7.6 cm (3 in) Length 25 cm (10 in) for KHA model 312 for Width 7.6 cm (3 in) Length 30 cm (12 in) for KHA model
404 for Width 10 cm (\stackrel{.}{4} in) Length 10 cm (\stackrel{.}{4} in) for KHA model 405 for Width 10 cm (\stackrel{.}{4} in) Length 13 cm (\stackrel{.}{5} in) for KHA model
406 for Width 10 cm (4 in) Length 15 cm (6 in) for KHA model
408 for Width 10 cm (4 in) Length 20 cm (8 in) for KHA model
410 for Width 10 cm (4 in) Length 25 cm (10 in) for KHA model
412 for Width 10 cm (4 in) Length 30 cm (12 in) for KHA model
0502 for Width 1 cm (0.5 in) Length 5 cm (2 in) for KHLVA model
0504 for Width 1 cm (0.5 in) Length 10 cm (4 in) for KHLVA model
505 for Width 13 cm (5 in) Length 13 cm (5 in) for KHA model
506 for Width 13 cm (5 in) Length 15 cm (6 in) for KHA model
508 for Width 13 cm (5 in) Length 20 cm (8 in) for KHA model
510 for Width 13 cm (5 in) Length 25 cm (10 in) for KHA model
512 for Width 13 cm (5 in) Length 30 cm (12 in) for KHA model
606 for Width 15 cm (6 in) Length 15 cm (6 in) for KHA model
608 for Width 15 cm (6 in) Length 20 cm (8 in) for KHA model
610 for Width 15 cm (6 in) Length 25 cm (10 in) for KHA model
612 for Width 15 cm (6 in) Length 30 cm (12 in) for KHA model
808 for Width 20 cm (8 in) Length 20 cm (8 in) for KHA model
810 for Width 20 cm (8 in) Length 25 cm (10 in) for KHA model
812 for Width 20 cm (8 in) Length 30 cm (12 in) for KHA model
1010 for Width 25 cm (10 i) Length 25 cm (10 in) for KHA model
1012 for Width 25 cm (10 in) Length 30 cm (12 in) for KHA model 1212 for Width 30 cm (12 in) Length 30 cm (12 in) for KHA model
(3) Wattage Density select from:
2 for 2.5 W/in2
5 for 5 W/in2
10 for 10 W/in2
(4) PSA (Adhesive) select from:
Nothing(leave field blank) for without PSA
Note: All combinations may not be valid, check spec sheet for valid part numbers.
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KHA-KIT

POLYIMIDE HEATER KIT



XRU1D Series

STANDARD TERMINAL BLOCK RELAYS



5TC SERIES

Ready-Made Insulated Thermocouples



SRFR and SRFG Series

Flexible Silicone Rubber Fiberglass Insulated Heaters



CN6221 Series

1/16 DIN Limit Controller

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