



**Hollow Cathode Lamps (HCL)**

Comparable other manufacturer part numbers

Inlab	P/N	Symbol	Element	Price	Data Coding	Regular / Self-Reversal	2-Pin / 4-Pin	Warranty (mA-Hr)	Gas	Varsal	Heraeus	Photron	Hamamatsu
HCL15R-Al		Al	Aluminum	129.00	Uncoded	Regular	4 Pin	3,000	Ne	203-101	3UNX/Al	P801	L233-13NB
HCL15R-Sb		Sb	Antimony	129.00	Uncoded	Regular	4 Pin	3,000	Ne	203-102	3QNY/Sb	P802	L233-51NQ
HCL15R-As		As	Arsenic	155.00	Uncoded	Regular	4 Pin	3,000	Ne	203-103	3QNY/As	P803	L233-33NQ
HCL15R-Ba		Ba	Barium	129.00	Uncoded	Regular	4 Pin	5,000	Ne	203-104	3BAX/Ba	P804	L233-56NB
HCL15R-Be		Be	Beryllium	178.00	Uncoded	Regular	4 Pin	3,000	Ne	203-105	3QNY/Be	P805	L233-4NQ
HCL15R-Bi		Bi	Bismuth	129.00	Uncoded	Regular	4 Pin	3,000	Ne	203-106	3QNY/Bi	P806	L233-83NQ
HCL15R-B		B	Boron	138.00	Uncoded	Regular	4 Pin	3,000	Ne	203-107	3UNX/B	P807	L233-5NQ
HCL15R-Cd		Cd	Cadmium	138.00	Uncoded	Regular	4 Pin	3,000	Ne	203-108	3QNY/Cd	P808	L233-48NQ
HCL15R-Ca		Ca	Calcium	123.00	Uncoded	Regular	4 Pin	5,000	Ne	203-109	3UNX/Ca	P809	L233-20NU
HCL15R-Ce		Ce	Cerium	162.00	Uncoded	Regular	4 Pin	5,000	Ne	203-163	UNX/Ce	P811	N/A
HCL15R-Cs		Cs	Cesium	189.00	Uncoded	Regular	4 Pin	3,000	Ne	203-164	3BNX/Cs	P810	L233-55NB
HCL15R-Cr		Cr	Chromium	129.00	Uncoded	Regular	4 Pin	5,000	Ne	203-110	3UNX/Cr	P812	L233-24NB
HCL15R-Co		Co	Cobalt	138.00	Uncoded	Regular	4 Pin	5,000	Ne	203-111	3UNX/Co	P813	L233-23NU
HCL15R-Cu		Cu	Copper	123.00	Uncoded	Regular	4 Pin	5,000	Ne	203-112	3UNX/Cu	P814	L233-29NB
HCL15R-Dy		Dy	Dysprosium	166.00	Uncoded	Regular	4 Pin	5,000	Ne	203-113	3BNX/Dy	P815	L233-68NB
HCL15R-Er		Er	Erbium	166.00	Uncoded	Regular	4 Pin	3,000	Ne	203-114	3BNX/Er	P816	L233-68NB
HCL15R-Eu		Eu	Europium	138.00	Uncoded	Regular	4 Pin	3,000	Ne	203-115	3BAX/Eu	P817	L233-63NB
HCL15R-Gd		Gd	Gadolinium	133.00	Uncoded	Regular	4 Pin	5,000	Ne	203-116	3UNX/Gd	P818	L233-64NB
HCL15R-Ga		Ga	Gallium	138.00	Uncoded	Regular	4 Pin	3,000	Ne	203-117	3UNX/Ga	P819	L233-31NU
HCL15R-Ge		Ge	Germanium	138.00	Uncoded	Regular	4 Pin	3,000	Ne	203-118	3UNX/Ge	P820	L233-32NU
HCL15R-Au		Au	Gold	178.00	Uncoded	Regular	4 Pin	5,000	Ne	203-119	3UNX/Au	P821	L233-79NQ
HCL15R-Hf		Hf	Hafnium	181.00	Uncoded	Regular	4 Pin	3,000	Ne	203-120	3UAX/Hf	P822	L233-72NU
HCL15R-Ho		Ho	Holmium	165.00	Uncoded	Regular	4 Pin	5,000	Ne	203-121	3QNX/Ho	P823	L233-67NQ
HCL15R-In		In	Indium	129.00	Uncoded	Regular	4 Pin	5,000	Ne	N/A	3UNX/In	P824	L233-77NQ
HCL15R-Fe		Fe	Iron	129.00	Uncoded	Regular	4 Pin	5,000	Ne	203-124	3UNX/Fe	P826	L233-26NU
HCL15R-Ir		Ir	Iridium	188.00	Uncoded	Regular	4 Pin	3,000	Ne	203-123	3QNX/Ir	P825	L233-77NQ
HCL15R-La		La	Lanthanum	138.00	Uncoded	Regular	4 Pin	5,000	Ne	203-125	3UAX/La	P827	L233-57NB
HCL15R-Pb		Pb	Lead	129.00	Uncoded	Regular	4 Pin	3,000	Ne	203-126	3QNY/Pb	P828	L233-82NQ
HCL15R-Li		Li	Lithium	129.00	Uncoded	Regular	4 Pin	3,000	Ar	203-127	3BAX/Li	P829	L233-3NB
HCL15R-Lu		Lu	Lutetium	178.00	Uncoded	Regular	4 Pin	3,000	Ne	203-165	3UAX/Lu	P830	L233-71NB
HCL15R-Mg		Mg	Magnesium	123.00	Uncoded	Regular	4 Pin	5,000	Ne	203-128	3QNY/Mg	P831	L233-12NU
HCL15R-Mn		Mn	Manganese	129.00	Uncoded	Regular	4 Pin	3,000	Ne	203-129	3UNX/Mn	P832	L233-25NU
HCL15R-Hg		Hg	Mercury	138.00	Uncoded	Regular	4 Pin	3,000	Ne	203-130	3UNX/Hg	P833	L233-80NU
HCL15R-Mo		Mo	Molybdenum	129.00	Uncoded	Regular	4 Pin	3,000	Ne	203-131	3UNX/Mo	P834	L233-42NQ
HCL15R-Nd		Nd	Neodymium	159.00	Uncoded	Regular	4 Pin	3,000	Ne	203-132	3BNX/Nd	P835	L233-60NB
HCL15R-Ni		Ni	Nickel	123.00	Uncoded	Regular	4 Pin	5,000	Ne	203-133	3QNY/Ni	P836	L233-28NQ



Hollow Cathode Lamps (HCL)										Comparable other manufacturer part numbers			
Inlab	P/N	Symbol	Element	Price	Data Coding	Regular / Self-Reversal	2-Pin / 4-Pin	Warranty (mA-Hr)	Gas	Varsal	Heraeus	Photron	Hamamatsu
HCL15R-Nb		Nb	Niobium	138.00	Uncoded	Regular	4 Pin	3,000	Ne	203-134	3UAX/Nb	P837	L233-41NB
HCL15R-Os		Os	Osmium	212.00	Uncoded	Regular	4 Pin	5,000	Ne	203-166	3UNX/Os	P838	L233-76NU
HCL15R-Pd		Pd	Palladium	138.00	Uncoded	Regular	4 Pin	5,000	Ne	203-135	3UNX/Pd	P839	L233-46NQ
HCL15R-P		P	Phosphorus	229.00	Uncoded	Regular	4 Pin	3,000	Ne	203-136	3QNY/P	N/A	N/A
HCL15R-Pt		Pt	Platinum	229.00	Uncoded	Regular	4 Pin	5,000	Ne	203-137	3UNX/Pt	P840	L233-78NU
HCL15R-K		K	Potassium	129.00	Uncoded	Regular	4 Pin	3,000	Ne	203-138	3BNX/K	P841	L233-15NB
HCL15R-Pr		Pr	Praseodymium	138.00	Uncoded	Regular	4 Pin	5,000	Ne	203-139	3BNX/Pr	P842	L233-59NB
HCL15R-Re		Re	Rhenium	178.00	Uncoded	Regular	4 Pin	5,000	Ne	203-140	3UAX/Re	P843	L233-75NB
HCL15R-Rh		Rh	Rhodium	328.00	Uncoded	Regular	4 Pin	3,000	Ne	203-141	3UAX/Rh	P844	L233-45NB
HCL15R-Rb		Rb	Rubidium	189.00	Uncoded	Regular	4 Pin	5,000	Ne	203-167	3BNX/Rb	P845	L233-37NB
HCL15R-Ru		Ru	Ruthenium	231.00	Uncoded	Regular	4 Pin	5,000	Ne	203-142	3UNX/Ru	P846	L233-44NB
HCL15R-Sm		Sm	Samarium	129.00	Uncoded	Regular	4 Pin	3,000	Ne	203-143	3UNX/Sm	P847	L233-62NB
HCL15R-Sc		Sc	Scandium	198.00	Uncoded	Regular	4 Pin	3,000	Ne	203-144	3UNX/Sc	P848	L233-21NB
HCL15R-Se		Se	Selenium	189.00	Uncoded	Regular	4 Pin	3,000	Ne	203-145	3QNY/Se	P849	L233-34NQ
HCL15R-Si		Si	Silicon	138.00	Uncoded	Regular	4 Pin	3,000	Ne	203-146	2QNY/Si	P850	L233-14NU
HCL15R-Ag		Ag	Silver	138.00	Uncoded	Regular	4 Pin	3,000	Ne	203-147	3UAX/Ag	P851	L233-47NB
HCL15R-Na		Na	Sodium	129.00	Uncoded	Regular	4 Pin	3,000	Ne	203-148	3UNX/Na	P852	L233-11NB
HCL15R-Sr		Sr	Strontium	178.00	Uncoded	Regular	4 Pin	5,000	Ne	203-149	3BAX/Sr	P853	L233-38NB
HCL15R-Ta		Ta	Tantalum	138.00	Uncoded	Regular	4 Pin	3,000	Ne	203-150	3UNX/Ta	P854	L233-73NU
HCL15R-Te		Te	Tellurium	178.00	Uncoded	Regular	4 Pin	3,000	Ne	203-151	3QNY/Te	P855	L233-52NQ
HCL15R-Tb		Tb	Terbium	178.00	Uncoded	Regular	4 Pin	3,000	Ne	203-152	3QNY/Tb	P856	L233-65NB
HCL15R-Tl		Tl	Thallium	289.00	Uncoded	Regular	4 Pin	5,000	Ne	203-153	3UNX/Tl	P857	L233-81NU
HCL15R-Tm		Tm	Thulium	178.00	Uncoded	Regular	4 Pin	3,000	Ne	203-154	3UNX/Tm	P858	L233-69NB
HCL15R-Sn		Sn	Tin	129.00	Uncoded	Regular	4 Pin	3,000	Ne	203-155	3QNY/Sn	P860	L233-50NQ
HCL15R-Ti		Ti	Titanium	129.00	Uncoded	Regular	4 Pin	5,000	Ne	203-156	3UNX/Ti	P861	L233-22NB
HCL15R-W		W	Tungsten	129.00	Uncoded	Regular	4 Pin	5,000	Ne	203-157	3UNX/W	P862	L233-74NU
HCL15R-V		V	Vanadium	138.00	Uncoded	Regular	4 Pin	5,000	Ne	203-158	3UNX/V	P864	L233-30NQ
HCL15R-Yb		Yb	Ytterbium	178.00	Uncoded	Regular	4 Pin	3,000	Ne	203-159	3UNX/Yb	P865	L233-70NB
HCL15R-Y		Y	Yttrium	178.00	Uncoded	Regular	4 Pin	3,000	Ne	203-160	3BNX/Y	P866	L233-39NB
HCL15R-Zn		Zn	Zinc	123.00	Uncoded	Regular	4 Pin	3,000	Ne	203-161	3QNY/Zn	P867	L233-30NQ
HCL15R-Zr		Zr	Zirconium	138.00	Uncoded	Regular	4 Pin	5,000	Ne	203-162	3UNX/Zr	P868	L233-40NB

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## HCL Operating Data

Element	Sensitive Line Wavelength (nm)	Operating Current (mA)	Max Current (mA)
Ag	328.1	3	15
Al	309.3	5	20
As	193.7	8	15
Au	242.8	4	15
B	249.8	8	20
Ba	553.6	6	15
Be	234.9	8	20
Bi	306.8	5	15
Ca	422.7	5	20
Cd	228.8	4	15
Ce	520	10	25
Co	240.7	6	20
Cr	357.9	2	20
Cs	852.1	8	15
Cu	324.8	4	15
Dy	404.6	8	25
Er	400.8	8	25
Eu	459.4	10	25
Fe	248.3	8	25
Ga	287.4	5	15
Gd	368.4	10	25
Ge	265.2	8	25
Hf	307.3	8	20
Ho	410.4	10	25
Hg	253.7	1	4
In	303.9	5	15
Ir	264	10	25
K	766.5	4	10
La	550.1	10	20
Li	670.8	4	15
Lu	336	10	25
Mg	285.2	4	15
Mn	279.5	5	25

Element	Sensitive Line Wavelength (nm)	Operating Current (mA)	Max Current (mA)
Mo	313.3	8	25
Na	589	5	15
Nb	334.4	10	20
Nd	492.4	10	20
Ni	232	8	25
Os	290.9	10	25
Pb	283.3	6	15
Pd	244.8	8	20
Pr	495.1	10	25
Pt	265.9	10	20
Rb	780	8	20
Re	346	10	25
Rh	343.5	10	20
Ru	349.9	8	25
Sb	217.6	8	20
Sc	391.2	10	20
Se	196	8	15
Si	251.6	10	25
Sm	429.7	10	25
Sn	286.3	8	15
Sr	460.7	8	15
Ta	271.5	10	25
Tb	431.9	10	25
Te	214.3	8	20
Ti	334.9	8	15
Tl	276.8	8	15
Tm	371.8	15	25
W	255.1	10	30
V	318.4	8	20
Y	410.2	10	25
Yb	398.8	10	20
Zn	213.9	6	15
Zr	360.1	8	20