

✖ Mute This Topic (<https://groups.io/g/HP-Agilent-Keysight-equipment/ft/76717919?csrf=5513314409256117711&mute=1&p=Created%2C%2C%2C20%2C2%2C0%2C0>)

A1H neon bulb for Date (<https://groups.io/g/HP-Agilent-Keysight-equipment/topic/76717919?p=Created%2C%2C%2C20%2C2%2C0%2C0>) on/off press switch

Alan G3XAQ

2020-09-08 (<https://groups.io/g/HP-Agilent-Keysight-equipment/message/109882>)

Anyone know of a European source for the A1H neon bulb used inside the on/off press switches in equipment such as the HP8640B, HP8444A, and probably a host of others?

Thanks, Alan G3XAQ

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Ted S ([/g/HP-Agilent-Keysight-equipment/profile/385953](https://groups.io/g/HP-Agilent-Keysight-equipment/profile/385953))

2020-09-10 (<https://groups.io/g/HP-Agilent-Keysight-equipment/message/109922>)

I buy neon bulbs from Mouser, they are all sourced from Asia, so I would assume they would be readily available across the pond. If you want to someone who went to extremes to find neon bulbs for a HP 419A repair, you might enjoy watching this video.

<https://youtu.be/vrmwql2msbU>

Ted WR4T

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george edmonds

2020-09-10 (<https://groups.io/g/HP-Agilent-Keysight-equipment/message/109944>)

Hi

ebay uk item 222115042772 for A1H bulbs.

The HP chopper neon's are readily available from CML (Chicago Miniature Lamp). They are 125V strike, dark enhanced ones.

Farnell stocks them.

George G6HIG Dover UK

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Cubdriver

2020-09-10 (<https://groups.io/g/HP-Agilent-Keysight-equipment/message/109945>)

George -

Do you know the CML part number for the chopper lamp before I spend a ton of time digging? I looked at the Farnell UK site, and it is less than helpful, showing either 65 or 250V as the supply voltage for all the CML neons.

Thanks!


-Pat

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 george edmonds

2020-09-10  (<https://groups.io/g/HP-Agilent-Keysight-equipment/message/109948>)

Hi Pat

It is just over a year ago when I last had to find these neon's so thing may have changed by now.

I believe the original neon's were NE-2U which is a CML A3C, I have attached the CML data sheet which is a little confusing if you don't place the two pages side by side and line up the tables.

The trick was a high intensity neon lamp that was "dark enhanced", normal neon lamps have difficulty striking in the dark, a minute amount of a radio active isotope was added to make them strike in the dark. The problem is this isotope has a half life of just over ten years so they all eventually die of old age, new stock is recommended.

Good luck

George G6HIG Dover UK

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57560.pdf

(<https://groups.io/g/HP-Agilent-Keysight-equipment/attachment/109948/0/57560.pdf>)

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 Dave Brown

2020-09-10  (<https://groups.io/g/HP-Agilent-Keysight-equipment/message/109952>)


George
Which HP choppers were these for?
DaveB, NZ

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 george edmonds

2020-09-11  (<https://groups.io/g/HP-Agilent-Keysight-equipment/message/109954>)

Hi Dave

As far as I know they are replacements for any HP photo chopper neon;s, they can also be used in the Marconi differential voltmeter (2606?).

George G6HIG Dover UK

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Jeff Furman

2020-09-11 <https://groups.io/g/HP-Agilent-Keysight-equipment/message/109958>

when I started out at HP san diego division in 1970, I designed a led replacement for the neon chopper eliminating a high voltage power transformer winding....
if the use here is literally a power indicator lamp then just adequate striking voltage margin over the expected useful lifetime is the issue. we see neon pilot lamps flickering beyond that.
Jeff Furman AD6MX

Sent from my Samsung Galaxy , an AT&T LTE smartphone

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Damon - KJ7E

2021-05-22 <https://groups.io/g/HP-Agilent-Keysight-equipment/message/115982>

In my 419a, the neon's work, but are getting tired. Takes a few min from first power on to get them both working normally. I bought two boxes (20 total) of the referenced CML A3C's. Did a test on my bench among the bunch, found the strike voltage all over the place, some as low as 90v, some needed 110v or more. Is there any particular quality I can or should test for to select the best candidates among the 20 to replace the neon's in the chopper? I know to test for dark strike, but is there any-other tangible quality I should sort for? I suspect at a min, matching the output brightness, best brightness, least flicker, similar strike voltage. Should I target a low or high strike voltage or does it matter as long as its low enough?

Sorry for all the questions.

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gk5220@gmail.com

2021-05-22 <https://groups.io/g/HP-Agilent-Keysight-equipment/message/115988>

Damon,
Try to find some GT-NE6H1925T neons. Strike voltage is 115V. They worked for me in the HP419A. I do not remember having to match anything. They are getting hard to find these days. Unfortunately, they were the only neons that I found to work in the HP419A.

George

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Damon - KJ7E

2021-05-22 <https://groups.io/g/HP-Agilent-Keysight-equipment/message/115989>

On Sat, May 22, 2021 at 08:02 PM, <gk5220@gmail.com> wrote:

Try to find some GT-NE6H1925T neons

Thanks George,

Could not find any state side, but got 40 on order from Swatee Electronics, they show they have a few thousand in stock. If they work, Ill be very popular among my voltnut friends.

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← (<https://groups.io/g/HP-Agilent-Keysight-equipment/topic/82993483?p=%2C%2C%2C20%2C0%2C0%2C0%3A%3A%2C%2C%2C0%2C0%2C0%2C82993483>)

→ (<https://groups.io/g/HP-Agilent-Keysight-equipment/topic/83042289?p=%2C%2C%2C20%2C0%2C0%2C0%3A%3A%2C%2C%2C0%2C0%2C0%2C83042289>)