

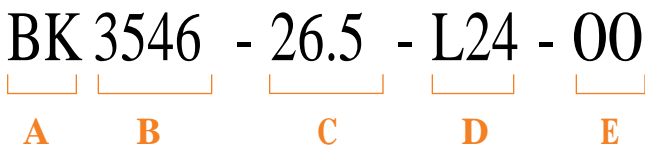


Standard Heater Selection Sheet

Part number format:

Sample PN: BK3546-26.5-L24-00

Our complete list of standards heaters is listed on the back.



A
Heater type:
 BK – Kapton Heater
 BR – Silicone Rubber Heater

B
Birk PN:
 Please choose from standard list on back

C
Resistance:
 Please choose from standard list on back

D
Lead length
 L12 – 12” length
 L24 – 24” length
 Other lead lengths available upon request after review

Ohm’s Law

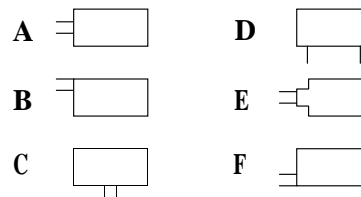
$$V = IR \quad W = \frac{V^2}{R}$$

$$R = \frac{V^2}{W} \quad V = \sqrt{RW}$$

E
Backing options
BK Heaters
 00 – none
 01 – PSA (.005”)
 02 – PSA (.002”)
 03 – Foil Backing (.003” Aluminum)
 04 – Foil Backing (.005” Aluminum)
 05 – Foil Backing w/ PSA (.003” Aluminum, .005” PSA)
 06 – Foil Backing w/ PSA (.005” Aluminum, .005” PSA)
 07 – Foil Backing w/ PSA (.003” Aluminum, .002” PSA)
 08 – Foil Backing w/ PSA (.005” Aluminum, .002” PSA)

BR Heaters
 20 – none
 21 – PSA (.005”)
 22 – Foil backing (.003” Aluminum)
 23 – Foil backing (.005” Aluminum)
 24 – Foil Backing w/ PSA (.003” Aluminum, .004” PSA)
 25 – Foil Backing w/ PSA (.005” Aluminum, .004” PSA)

Lead locations (see list on back)



Standard Heater List

All standard heaters are available in Silicone or Kapton®.
Call to order: 860-739-4170.

Temperature limitation is 200°C if heater has PSA. Kapton heaters without PSA maximum temperature is 240°C. Contact Birk for more information.

Orange means that choice is not currently available.

| Heater PN | Width | Length | Resistance Option #1 | Resistance Option #2 | Resistance Option #3 | Resistance Option #4 | Resistance Option #5 | Resistance Option #6 | Resistance Option #7 | Lead Location |
|-----------|-------|--------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------|
| 3542 | 0.25 | 0.25 | 42.0 | 21.0 | 10.0 | 8.4 | 5.2 | | | E |
| 3543 | 0.25 | 0.50 | 63.0 | 31.5 | 14.9 | 12.5 | 7.9 | 3.1 | | E |
| 3544 | 0.25 | 0.75 | 53.0 | 26.5 | 12.6 | 10.5 | 6.6 | 2.6 | | E |
| 3500 | 0.25 | 1.00 | 28.8 | 14.4 | 6.8 | | 3.6 | | | A |
| 3501 | 0.30 | 1.50 | 51.0 | 25.5 | 12.1 | | 6.4 | | 4.9 | A |
| 3545 | 0.30 | 1.50 | 87.5 | 43.8 | 20.7 | 17.4 | 10.9 | 4.2 | 8.5 | E |
| 3502 | 0.40 | 2.60 | 119.6 | 59.8 | 28.4 | 23.8 | 14.9 | 5.8 | 11.6 | A |
| 3546 | 0.50 | 0.50 | 53.0 | 26.5 | 12.6 | 10.5 | 6.6 | 2.6 | 5.1 | E |
| 3503 | 0.50 | 1.00 | 57.5 | 28.8 | 13.6 | | 7.2 | | 5.6 | A |
| 3504 | 0.50 | 2.00 | 156.8 | 78.4 | 37.2 | | 19.6 | 7.6 | 15.2 | A |
| 3505 | 0.50 | 2.50 | 143.8 | 71.9 | 34.1 | 28.6 | 17.9 | 7.0 | 13.9 | A |
| 3550 | 0.50 | 3.00 | 65.0 | 32.5 | 15.4 | 12.9 | 8.1 | 3.1 | 6.3 | A |
| 3506 | 0.50 | 4.00 | 230.0 | 115.0 | 54.5 | 45.8 | 28.7 | 11.1 | 22.3 | A |
| 3547 | 0.50 | 4.00 | 394.0 | 197.0 | 93.4 | 78.4 | 49.1 | 19.1 | | A |
| 3549 | 0.50 | 5.00 | 125.0 | 62.5 | 29.6 | 24.9 | 15.6 | 6.1 | 12.1 | A |
| 3548 | 0.50 | 7.50 | 111.0 | 55.5 | 26.3 | 22.1 | 13.8 | 5.4 | 10.8 | A |
| 3551 | 0.53 | 1.00 | 126.4 | 63.2 | 30.0 | 25.1 | 15.8 | 6.1 | 12.2 | A |
| 3552 | 0.53 | 1.20 | 127.0 | 63.5 | 30.1 | 25.3 | 15.8 | 6.2 | 12.3 | A |
| 3553 | 0.55 | 6.60 | 133.0 | 66.5 | 31.5 | 26.5 | 16.6 | 6.4 | 12.9 | A |
| 3554 | 0.62 | 1.43 | 57.5 | 28.8 | 13.6 | 11.4 | 7.2 | 2.8 | 5.6 | D |
| 3555 | 0.75 | 0.75 | 19.8 | 9.9 | 4.7 | 3.9 | 2.5 | | | A |
| 3556 | 0.75 | 1.00 | 57.5 | 28.8 | 13.6 | 11.4 | 7.2 | 2.8 | 5.6 | A |
| 3558 | 0.75 | 1.85 | 122.0 | 61.0 | 28.9 | 24.3 | 15.2 | 5.9 | 11.8 | A |
| 3507 | 0.75 | 2.00 | 172.5 | 86.3 | 40.9 | | 21.5 | 8.4 | 16.7 | A |
| 3508 | 0.75 | 4.00 | 255.0 | 127.5 | 60.5 | 50.7 | 31.8 | 12.4 | 24.7 | A |
| 3557 | 0.75 | 8.00 | 91.0 | 45.5 | 21.6 | 18.1 | 11.4 | 4.4 | 8.8 | A |
| 3509 | 0.75 | 10.00 | 337.5 | 168.8 | 80.0 | 67.2 | 42.1 | 16.4 | | A |
| 3510 | 0.80 | 1.75 | 119.0 | 59.5 | 28.2 | | 14.8 | 5.8 | 11.5 | A |
| 3568 | 1.00 | 1.00 | 132.0 | 66.0 | 31.3 | 26.3 | 16.5 | 6.4 | 12.8 | A |
| 3511 | 1.00 | 1.00 | 156.8 | 78.4 | 37.2 | | 19.6 | 7.6 | 15.2 | A |
| 3512 | 1.00 | 2.00 | 156.8 | 78.4 | 37.2 | | 19.6 | 7.6 | 15.2 | A |
| 3513 | 1.00 | 3.00 | 210.0 | 105.0 | 49.8 | 41.8 | 26.2 | 10.2 | 20.4 | A |
| 3514 | 1.00 | 4.00 | 460.0 | 230.0 | 109.1 | 91.5 | 57.4 | 22.3 | 44.6 | A |
| 3515 | 1.00 | 10.00 | 440.0 | 220.0 | 104.3 | 87.5 | 54.9 | 21.3 | | A |
| 3516 | 1.10 | 2.50 | 316.3 | 158.1 | 75.0 | 62.9 | 39.4 | 15.3 | 30.6 | A |
| 3559 | 1.18 | 1.80 | 157.0 | 78.5 | 37.2 | 31.2 | 19.6 | 7.6 | 15.2 | D |
| 3517 | 1.25 | 1.50 | 215.6 | 107.8 | 51.1 | 42.9 | 26.9 | 10.4 | 20.9 | A |
| 3561 | 1.50 | 1.50 | 83.0 | 41.5 | 19.7 | 16.5 | 10.4 | 4.0 | 8.0 | E |
| 3560 | 1.50 | 2.00 | 182.0 | 91.0 | 43.2 | 36.2 | 22.7 | 8.8 | 17.6 | A |
| 3518 | 1.50 | 3.00 | 378.0 | 189.0 | 89.6 | 75.2 | 47.2 | 18.3 | 36.6 | A |
| 3562 | 1.50 | 7.00 | 50.2 | 25.1 | 11.9 | 10.0 | 6.3 | 2.4 | 4.9 | A |
| 3519 | 1.50 | 8.00 | 738.0 | 369.0 | 175.0 | 146.8 | 92.1 | 35.8 | | B |
| 3520 | 1.75 | 3.00 | 409.5 | 204.8 | 97.1 | 81.5 | 51.1 | 19.8 | 39.7 | A |
| 3563 | 1.97 | 2.16 | 112.0 | 56.0 | 26.6 | 22.3 | 14.0 | 5.4 | 10.9 | F |
| 3521 | 2.00 | 2.00 | 112.0 | 56.0 | 26.6 | | 14.0 | 5.4 | 10.9 | A |
| 3564 | 2.00 | 3.00 | 18.0 | 9.0 | 4.3 | 3.6 | | | | C |
| 3522 | 2.00 | 3.00 | 441.0 | 220.5 | 104.6 | 87.7 | 55.0 | 21.4 | 42.7 | A |
| 3523 | 2.00 | 4.00 | 324.0 | 162.0 | 76.8 | 64.5 | 40.4 | 15.7 | 31.4 | A |
| 3565 | 2.00 | 5.00 | 112.6 | 56.3 | 26.7 | 22.4 | 14.0 | 5.5 | 10.9 | A |
| 3524 | 2.00 | 6.00 | 612.0 | 306.0 | 145.1 | 121.8 | 76.3 | 29.7 | | A |
| 3525 | 2.25 | 4.50 | 374.6 | 187.3 | 88.8 | 74.5 | 46.7 | 18.2 | 36.3 | A |
| 3526 | 2.50 | 3.00 | 622.5 | 311.3 | 147.6 | 123.9 | 77.7 | 30.2 | 60.3 | A |
| 3527 | 2.50 | 4.00 | 710.0 | 355.0 | 168.4 | 141.3 | 88.6 | 34.4 | 68.8 | A |
| 3528 | 3.00 | 3.00 | 135.0 | 67.5 | 32.0 | 26.9 | 16.8 | 6.5 | 13.1 | A |
| 3566 | 3.00 | 4.00 | 82.0 | 41.0 | 19.4 | 16.3 | 10.2 | 4.0 | 7.9 | A |
| 3529 | 3.00 | 5.00 | 1065.0 | 532.5 | 252.5 | 211.9 | 132.9 | 51.6 | 103.2 | A |
| 3530 | 3.00 | 6.00 | 1278.0 | 639.0 | 303.0 | 254.3 | 159.4 | 61.9 | 123.8 | A |
| 3531 | 3.00 | 10.00 | 1440.0 | 720.0 | 341.4 | 286.5 | 179.6 | 69.8 | | A |
| 3532 | 3.00 | 12.00 | 1728.0 | 864.0 | 409.7 | 343.8 | 215.6 | 83.7 | | A |
| 3533 | 4.00 | 4.00 | 768.0 | 384.0 | 182.1 | 152.8 | 95.8 | 37.2 | | A |
| 3567 | 4.00 | 6.00 | 90.0 | 45.0 | 21.3 | 17.9 | 11.2 | 4.4 | 8.7 | A |
| 3534 | 4.00 | 8.00 | 1536.0 | 768.0 | 364.2 | 305.6 | 191.6 | 74.4 | | A |
| 3535 | 4.00 | 12.00 | 2304.0 | 1152.0 | 546.3 | 458.4 | 287.4 | 111.6 | | A |
| 3536 | 5.00 | 5.00 | 437.5 | 218.8 | 103.7 | 87.0 | 54.6 | 21.2 | | A |
| 3537 | 5.00 | 8.00 | 200.0 | 100.0 | 47.4 | 39.8 | 24.9 | 9.7 | | A |
| 3538 | 5.00 | 10.00 | 2050.0 | 1025.0 | 486.1 | | 255.7 | 99.3 | | A |
| 3539 | 6.00 | 6.00 | 1476.0 | 738.0 | 350.0 | | 184.1 | 71.5 | | A |
| 3540 | 9.00 | 12.00 | 4428.0 | 2214.0 | 1049.9 | | 552.4 | 214.6 | | A |
| 3541 | 10.00 | 15.00 | 6150.0 | 3075.0 | 1458.2 | | 767.2 | 298.0 | | A |