

Magnetically Compensated Choke, compact



## Description

- Current compensated choke
- THT-terminals
- Multiple PCB-mounting options
- High inductance and compact dimensions
- Multiple pin configurations

## Standards

- EN 60938
- UL 1283
- CSA 22.2 no 8

## Applications

- Attenuation of common mode interferences
- Designed for 230/400 VAC applications
- Chopper amplifiers
- DC drives and stepper motor controls
- Switching power supplies

## Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [SPICE Library](#)

## Technical Data

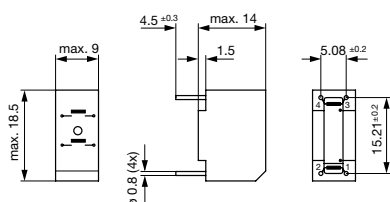
|                           |                              |
|---------------------------|------------------------------|
| Rated voltage             | up to 250 VAC                |
| Rated Current             | 0.3 - 10 A @ Ta 40 °C        |
| Rated inductance          | 0.5 - 100 mH, Tol. -30% +50% |
| Power Operating Frequency | DC - 1 kHz                   |
| Terminal Type             | THT                          |
| Weight                    | 1 - 55 g                     |
| Material: Housing         | UL 94V-0                     |
| Sealing Compound          | UL 94V-0                     |

|                           |                                          |
|---------------------------|------------------------------------------|
| Test Voltage              | 1.5 kV, 50 Hz, 1 min, winding to winding |
| Isolation Voltage         | 4 kV eff., winding to ambient            |
| Climatic Category         | 40/125/56 acc. to IEC 60068-1            |
| Allowable Operation Temp. | -40 °C to 125 °C                         |

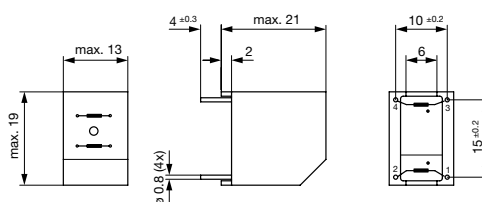
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

## Dimension

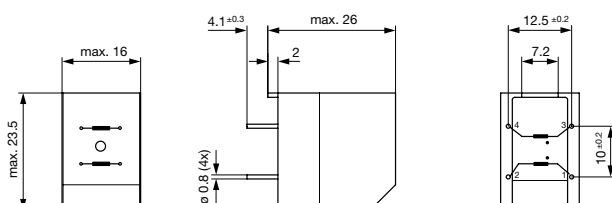
### Case 1A



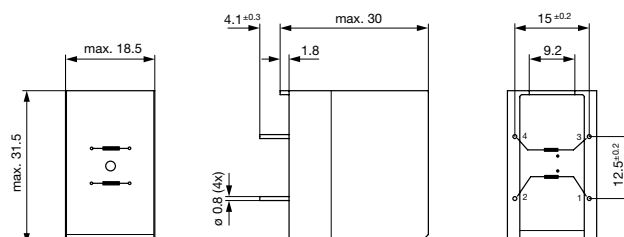
### Case 1B



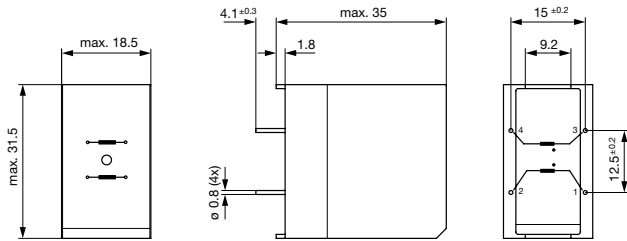
### Case 1C



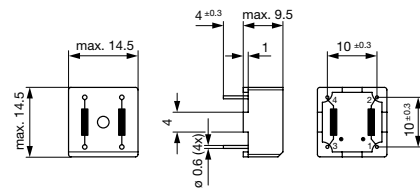
### Case 1D



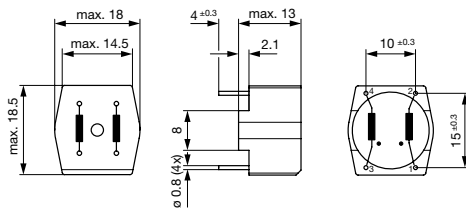
Case 1E



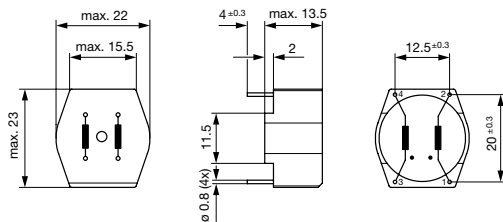
Case 2A



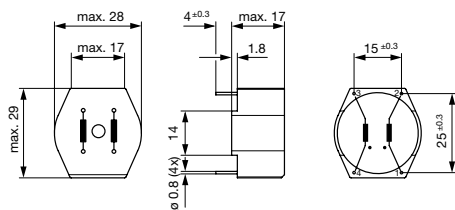
Case 2B



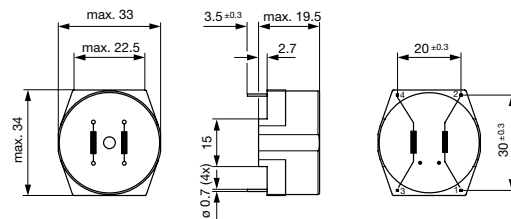
Case 2C



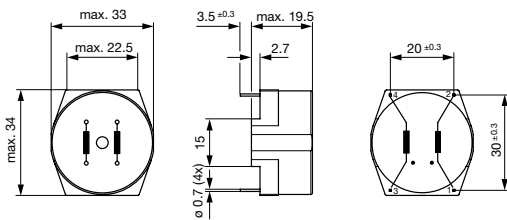
Case 2D



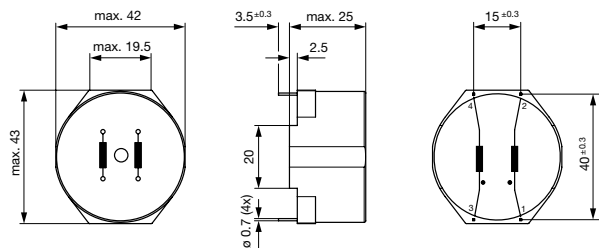
Case 2E



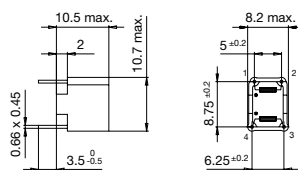
Case 2G



Case 2H

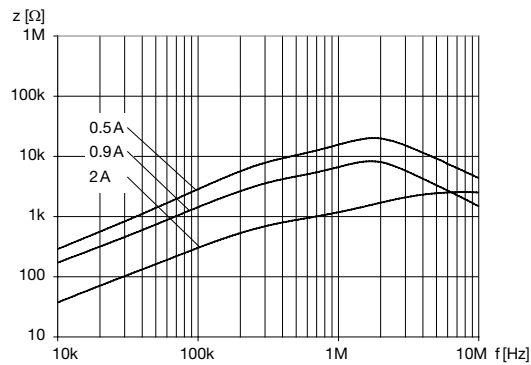


Case 48-2

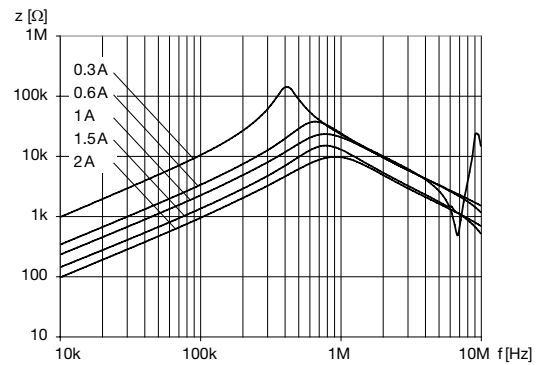


## Impedance curves

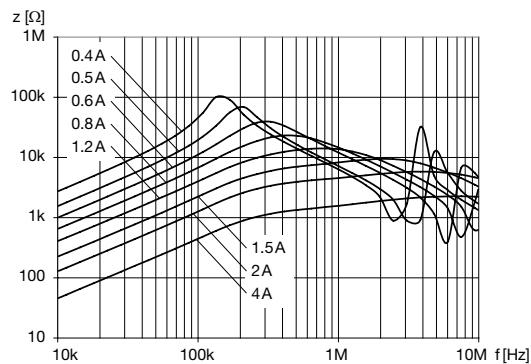
DKFP\_6248\_xxxx



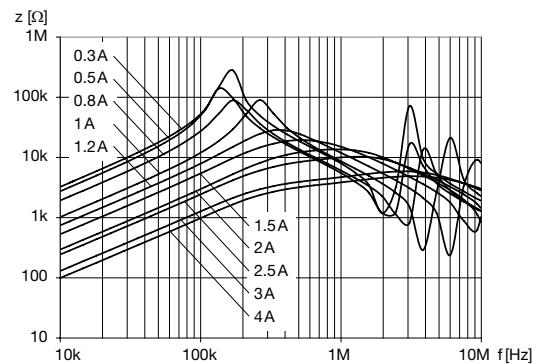
DKFP\_A2xA\_xxxx



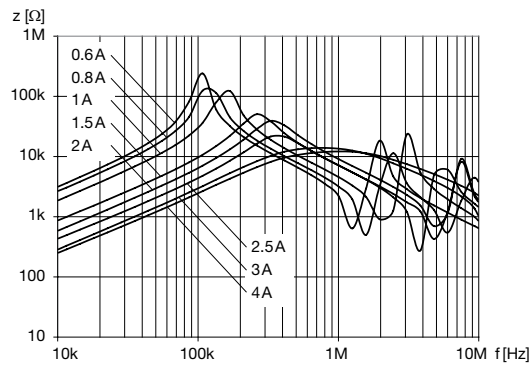
DKFP\_B2xB\_xxxx



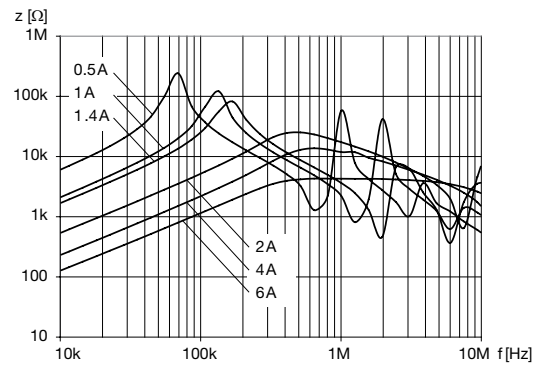
DKFP\_C2xC\_xxxx



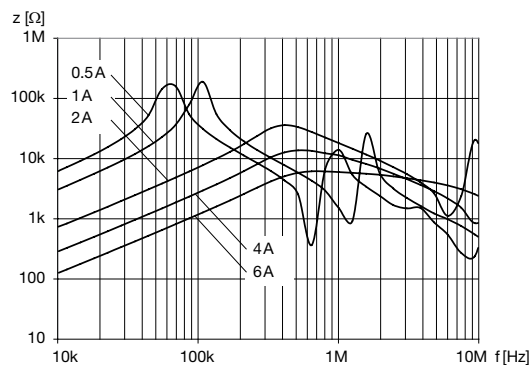
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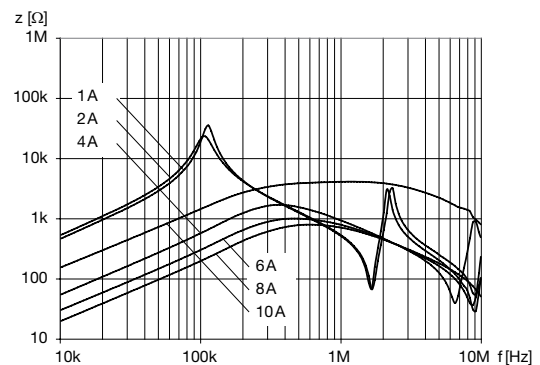
DKFP\_E2xE\_xxxx



DKFP\_G22G\_xxxx



DKFP\_H22H\_xxxx



## All Variants

| $I_n$ [A] | $L_n$ [mH] | $R_{cu}$ [mΩ] | Power <sub>loss</sub> [W] | $f_{RES}$ [MHz] | Weight [g] | Housings | Packing unit [pcs.] | Order Number   |
|-----------|------------|---------------|---------------------------|-----------------|------------|----------|---------------------|----------------|
| 0.3       | 12         | 1280          | 0.12                      | 0.55            | 3 g        | 2A       | 72                  | DKFP-A22A-D312 |
| 0.3       | 12         | 1280          | 0.12                      | 0.55            | 4 g        | 1A       | 90                  | DKFP-A21A-D312 |
| 0.3       | 47         | 1850          | 0.17                      | 0.15            | 11 g       | 2C       | 32                  | DKFP-C22C-D347 |
| 0.3       | 47         | 1850          | 0.17                      | 0.15            | 14 g       | 1C       | 35                  | DKFP-C21C-D347 |
| 0.4       | 39         | 1286          | 0.2                       | 0.15            | 6 g        | 2B       | 45                  | DKFP-B22B-D439 |
| 0.4       | 39         | 1286          | 0.2                       | 0.15            | 8 g        | 1B       | 120                 | DKFP-B21B-D439 |
| 0.5       | 100        | 3100          | 0.78                      | 0.07            | 33 g       | 2G       | 28                  | DKFP-G22G-D5J0 |
| 0.5       | 27         | 841           | 0.2                       | 0.2             | 8 g        | 1B       | 120                 | DKFP-B21B-D527 |
| 0.5       | 27         | 841           | 0.21                      | 0.2             | 6 g        | 2B       | 45                  | DKFP-B22B-D527 |
| 0.5       | 39         | 880           | 0.22                      | 0.15            | 11 g       | 2C       | 32                  | DKFP-C22C-D539 |
| 0.5       | 39         | 880           | 0.22                      | 0.15            | 14 g       | 1C       | 35                  | DKFP-C21C-D539 |
| 0.5       | 4          | 500           | 0.25                      | 1.2             | 55 g       | 48-2     | 176                 | DKFP-6248-D504 |
| 0.5       | 82         | 2840          | 0.71                      | 0.07            | 32 g       | 2E       | 28                  | DKFP-E22E-D582 |
| 0.5       | 82         | 2840          | 0.71                      | 0.07            | 34 g       | 1E       | 70                  | DKFP-E21E-D582 |
| 0.6       | 15         | 453           | 0.16                      | 0.35            | 6 g        | 2B       | 45                  | DKFP-B22B-D615 |
| 0.6       | 15         | 453           | 0.16                      | 0.35            | 8 g        | 1B       | 120                 | DKFP-B21B-D615 |
| 0.6       | 4.4        | 380           | 0.14                      | 1.1             | 3 g        | 2A       | 72                  | DKFP-A22A-D64M |
| 0.6       | 4.4        | 380           | 0.14                      | 1.1             | 4 g        | 1A       | 90                  | DKFP-A21A-D64M |
| 0.6       | 47         | 1170          | 0.42                      | 0.1             | 20 g       | 2D       | 35                  | DKFP-D22D-D647 |
| 0.6       | 47         | 1170          | 0.42                      | 0.1             | 25 g       | 1D       | 56                  | DKFP-D21D-D647 |
| 0.8       | 10         | 336           | 0.21                      | 0.45            | 8 g        | 1B       | 120                 | DKFP-B21B-D810 |
| 0.8       | 10         | 336           | 0.22                      | 0.45            | 6 g        | 2B       | 45                  | DKFP-B22B-D810 |
| 0.8       | 27         | 520           | 0.33                      | 0.18            | 11 g       | 2C       | 32                  | DKFP-C22C-D827 |
| 0.8       | 27         | 520           | 0.33                      | 0.18            | 14 g       | 1C       | 35                  | DKFP-C21C-D827 |
| 0.8       | 39         | 955           | 0.61                      | 0.15            | 20 g       | 2D       | 40                  | DKFP-D22D-D839 |
| 0.8       | 39         | 955           | 0.61                      | 0.15            | 25 g       | 1D       | 56                  | DKFP-D21D-D839 |
| 0.9       | 2          | 240           | 0.39                      | 1.6             | 55 g       | 48-2     | 176                 | DKFP-6248-0102 |
| 1         | 15         | 350           | 0.35                      | 0.25            | 11 g       | 2C       | 32                  | DKFP-C22C-0115 |
| 1         | 27         | 554           | 0.55                      | 0.16            | 20 g       | 2D       | 35                  | DKFP-D22D-0127 |
| 1         | 3          | 200           | 0.2                       | 1.7             | 3 g        | 2A       | 72                  | DKFP-A22A-0103 |
| 1         | 3          | 200           | 0.2                       | 1.7             | 4 g        | 1A       | 90                  | DKFP-A21A-0103 |
| 1         | 33         | 805           | 0.8                       | 0.13            | 32 g       | 2E       | 28                  | DKFP-E22E-0133 |
| 1         | 33         | 805           | 0.8                       | 0.13            | 34 g       | 1E       | 70                  | DKFP-E21E-0133 |
| 1         | 47         | 950           | 0.95                      | 0.1             | 33 g       | 2G       | 28                  | DKFP-G22G-0147 |
| 1         | 68         | 1400          | 1.4                       | 0.1             | 55 g       | 2H       | 18                  | DKFP-H22H-0168 |
| 1.0       | 15         | 350           | 0.35                      | 0.25            | 14 g       | 1C       | 35                  | DKFP-C21C-0115 |
| 1.0       | 27         | 554           | 0.55                      | 0.16            | 25 g       | 1D       | 56                  | DKFP-D21D-0127 |
| 1.2       | 10         | 200           | 0.29                      | 0.35            | 11 g       | 2C       | 32                  | DKFP-C22C-1K10 |
| 1.2       | 10         | 200           | 0.29                      | 0.35            | 14 g       | 1C       | 35                  | DKFP-C21C-1K10 |
| 1.2       | 6.8        | 219           | 0.31                      | 0.6             | 8 g        | 1B       | 120                 | DKFP-B21B-1K6Q |
| 1.2       | 6.8        | 219           | 0.32                      | 0.6             | 6 g        | 2B       | 45                  | DKFP-B22B-1K6Q |
| 1.4       | 27         | 520           | 1                         | 0.16            | 32 g       | 2E       | 28                  | DKFP-E22E-1M27 |
| 1.4       | 27         | 520           | 1                         | 0.16            | 34 g       | 1E       | 70                  | DKFP-E21E-1M27 |
| 1.5       | 1.6        | 94            | 0.21                      | 3.1             | 3 g        | 2A       | 72                  | DKFP-A22A-1N10 |
| 1.5       | 1.6        | 94            | 0.21                      | 3.1             | 4 g        | 1A       | 90                  | DKFP-A21A-1N10 |
| 1.5       | 15         | 232           | 0.52                      | 0.26            | 20 g       | 2D       | 35                  | DKFP-D22D-1N15 |
| 1.5       | 15         | 232           | 0.52                      | 0.26            | 25 g       | 1D       | 56                  | DKFP-D21D-1N15 |
| 1.5       | 3.3        | 122           | 0.28                      | 1.8             | 6 g        | 2B       | 45                  | DKFP-B22B-1N3L |
| 1.5       | 3.3        | 122           | 0.28                      | 1.8             | 8 g        | 1B       | 120                 | DKFP-B21B-1N3L |
| 1.5       | 6.8        | 150           | 0.34                      | 0.5             | 11 g       | 2C       | 32                  | DKFP-C22C-1N6Q |
| 1.5       | 6.8        | 150           | 0.34                      | 0.5             | 14 g       | 1C       | 35                  | DKFP-C21C-1N6Q |
| 2         | 0.5        | 50            | 0.4                       | 4.5             | 55 g       | 48-2     | 176                 | DKFP-6248-02D5 |
| 2         | 1.1        | 61            | 0.25                      | 3.5             | 3 g        | 2A       | 72                  | DKFP-A22A-021J |
| 2         | 1.1        | 61            | 0.25                      | 3.5             | 4 g        | 1A       | 90                  | DKFP-A21A-021J |

| $I_n$ [A] | $L_n$ [mH] | $R_{cu}$ [mΩ] | Power <sub>loss</sub> [W] | $f_{RES}$ [MHz] | Weight [g] | Housings | Packing unit [pcs.] | Order Number   |
|-----------|------------|---------------|---------------------------|-----------------|------------|----------|---------------------|----------------|
| 2         | 1.8        | 57            | 0.23                      | 3               | 6 g        | 2B       | 45                  | DKFP-B22B-021Q |
| 2         | 1.8        | 57            | 0.23                      | 3               | 8 g        | 1B       | 120                 | DKFP-B21B-021Q |
| 2         | 10         | 149           | 0.6                       | 0.34            | 20 g       | 2D       | 35                  | DKFP-D22D-0210 |
| 2         | 10         | 149           | 0.6                       | 0.34            | 25 g       | 1D       | 56                  | DKFP-D21D-0210 |
| 2         | 10         | 245           | 1                         | 0.4             | 33 g       | 2G       | 28                  | DKFP-G22G-0210 |
| 2         | 18         | 360           | 1.4                       | 0.2             | 55 g       | 2H       | 18                  | DKFP-H22H-0218 |
| 2         | 4.2        | 92            | 0.37                      | 0.9             | 14 g       | 1C       | 35                  | DKFP-C21C-024K |
| 2         | 4.2        | 92            | 0.37                      | 0.9             | 11 g       | 2C       | 32                  | DKFP-C22C-024K |
| 2         | 6.8        | 200           | 0.8                       | 0.5             | 32 g       | 2E       | 28                  | DKFP-E22E-026Q |
| 2         | 6.8        | 200           | 0.8                       | 0.5             | 34 g       | 1E       | 70                  | DKFP-E21E-026Q |
| 2.5       | 3.3        | 73            | 0.45                      | 1.2             | 11 g       | 2C       | 60                  | DKFP-C22C-2N3L |
| 2.5       | 3.3        | 93            | 0.46                      | 1.2             | 14 g       | 1C       | 35                  | DKFP-C21C-2N3L |
| 2.5       | 6.8        | 101           | 0.63                      | 0.36            | 20 g       | 2D       | 40                  | DKFP-D22D-2N6Q |
| 2.5       | 6.8        | 101           | 0.63                      | 0.36            | 25 g       | 1D       | 56                  | DKFP-D21D-2N6Q |
| 3         | 2          | 52            | 0.47                      | 2.5             | 11 g       | 2C       | 32                  | DKFP-C22C-0302 |
| 3         | 2          | 52            | 0.47                      | 2.5             | 14 g       | 1C       | 35                  | DKFP-C21C-0302 |
| 3         | 4.2        | 63            | 0.57                      | 0.85            | 20 g       | 2D       | 35                  | DKFP-D22D-034K |
| 3         | 4.2        | 63            | 0.57                      | 0.85            | 25 g       | 1D       | 56                  | DKFP-D21D-034K |
| 4         | 0.7        | 18            | 0.29                      | 6.5             | 6 g        | 2B       | 45                  | DKFP-B22B-04D7 |
| 4         | 0.7        | 18            | 0.29                      | 6.5             | 8 g        | 1B       | 120                 | DKFP-B21B-04D7 |
| 4         | 1.5        | 30            | 0.48                      | 2.8             | 11 g       | 2C       | 60                  | DKFP-C22C-041N |
| 4         | 1.5        | 30            | 0.48                      | 2.8             | 14 g       | 1C       | 35                  | DKFP-C21C-041N |
| 4         | 3.3        | 45            | 0.72                      | 1               | 20 g       | 2D       | 35                  | DKFP-D22D-043L |
| 4         | 3.3        | 45            | 0.72                      | 1               | 25 g       | 1D       | 56                  | DKFP-D21D-043L |
| 4         | 3.3        | 62            | 1                         | 0.6             | 32 g       | 2E       | 28                  | DKFP-E22E-043L |
| 4         | 3.3        | 62            | 1                         | 0.6             | 34 g       | 1E       | 70                  | DKFP-E21E-043L |
| 4         | 3.9        | 70            | 1.1                       | 0.5             | 33 g       | 2G       | 28                  | DKFP-G22G-043R |
| 4         | 6.8        | 100           | 1.6                       | 0.6             | 55 g       | 2H       | 18                  | DKFP-H22H-046Q |
| 6         | 1.8        | 23            | 0.83                      | 0.7             | 32 g       | 2E       | 28                  | DKFP-E22E-061Q |
| 6         | 1.8        | 23            | 0.83                      | 0.7             | 33 g       | 2G       | 28                  | DKFP-G22G-061Q |
| 6         | 1.8        | 23            | 0.83                      | 0.7             | 34 g       | 1E       | 70                  | DKFP-E21E-061Q |
| 6         | 3.9        | 46            | 1.6                       | 0.7             | 55 g       | 2H       | 18                  | DKFP-H22H-063R |
| 8         | 2.7        | 22            | 1.4                       | 1               | 55 g       | 2H       | 18                  | DKFP-H22H-082P |
| 10        | 1.8        | 13            | 1.3                       | 1.1             | 55 g       | 2H       | 18                  | DKFP-H22H-101Q |

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