

Magnetically Compensated Choke, compact

new



## 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](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [SPICE Library](#)

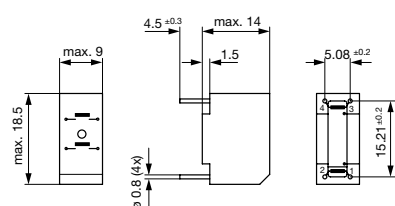
## Technical Data

|                           |                              |
|---------------------------|------------------------------|
| 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 technic          | THT                          |
| Weight                    | 1 - 55 g                     |
| Material: Housing         | UL 94V-0                     |
| Sealing Compound          | UL 94V-0                     |

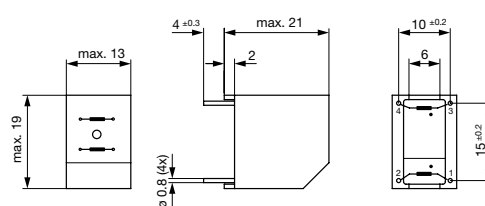
|                           |                                          |
|---------------------------|------------------------------------------|
| Test Voltage              | 1.5 kV, 50 Hz, 1 min, winding to winding |
| Isolation Voltage         | 4 kV eff., winding to ambient            |
| Climatic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

## Dimension

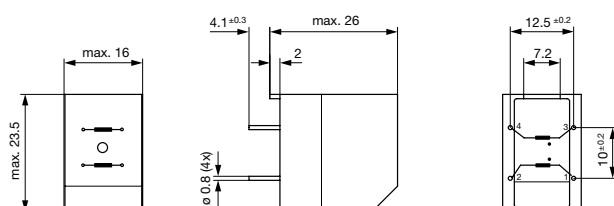
### Case 1A



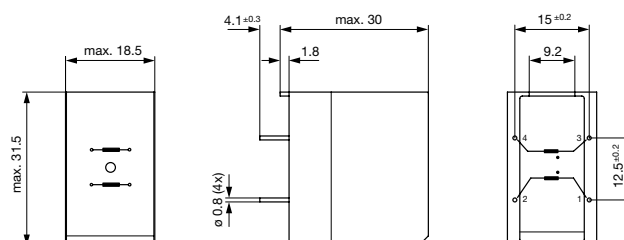
### Case 1B



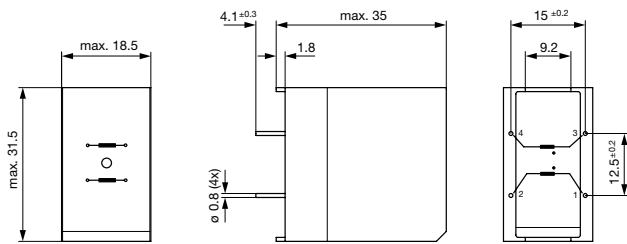
### Case 1C



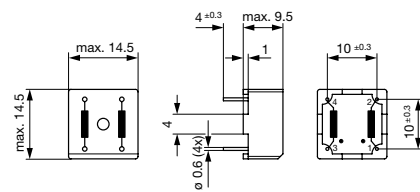
### Case 1D



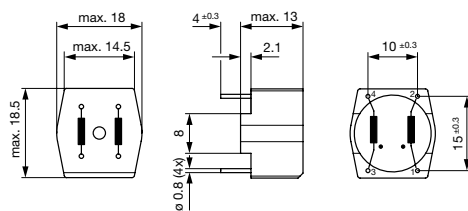
Case 1E



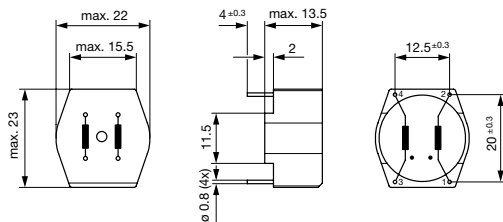
Case 2A



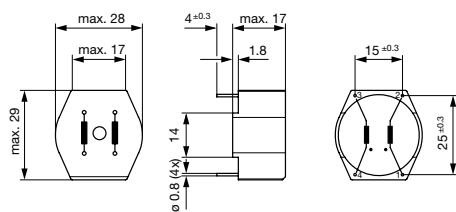
Case 2B



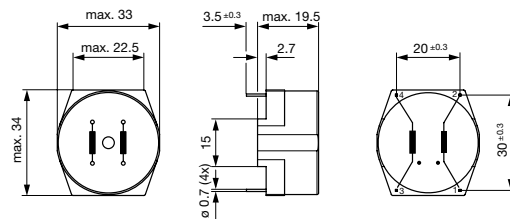
Case 2C



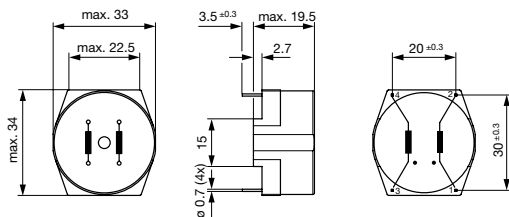
Case 2D



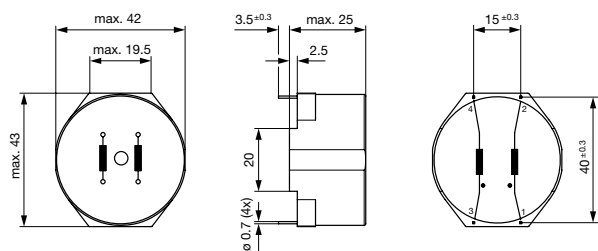
Case 2E



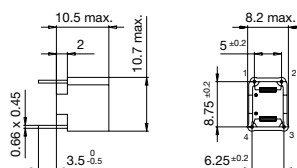
Case 2G



Case 2H

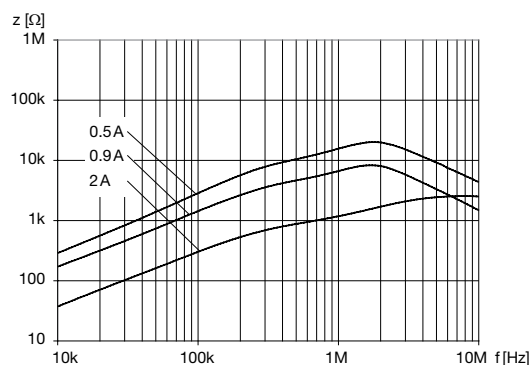


Case 48-2

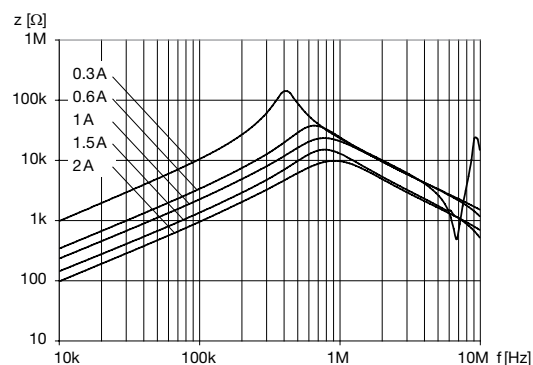


## Impedance curves

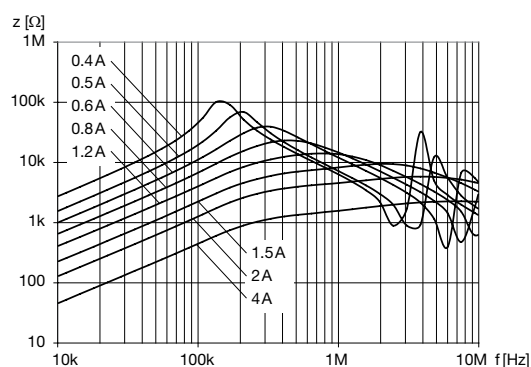
DKFP\_6248\_xxxx



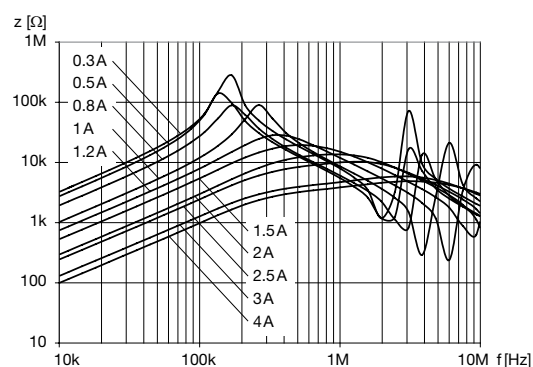
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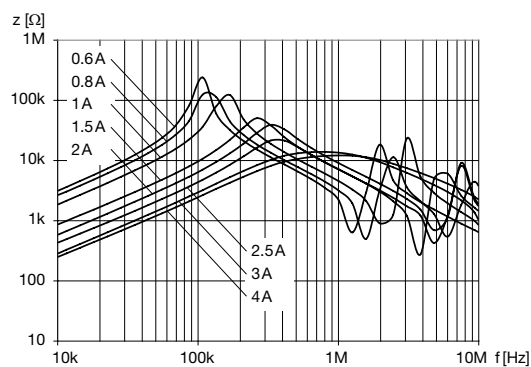
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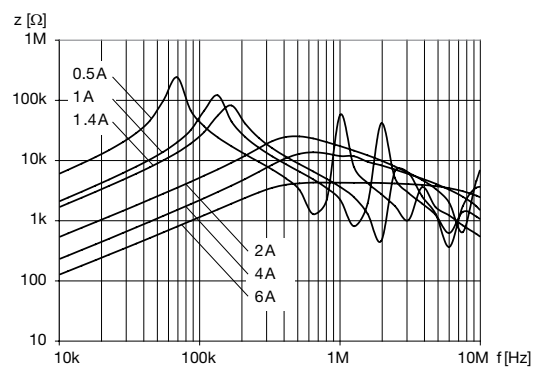
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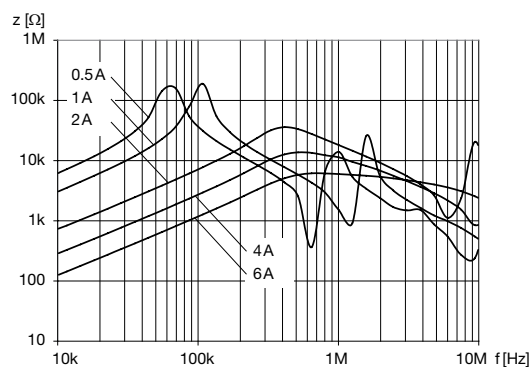
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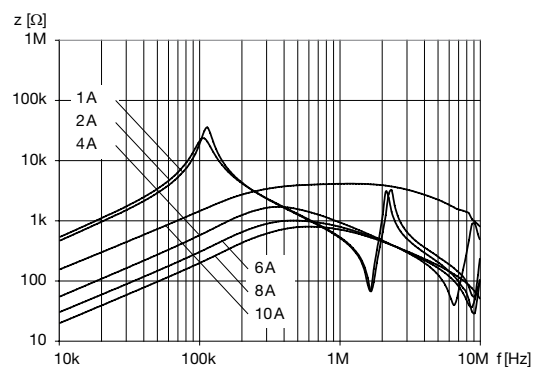
DKFP\_E2xE\_xxxx



DKFP\_G22G\_xxxx



DKFP\_H22H\_xxxx



## All Variants

| I <sub>n</sub> [A] | L <sub>n</sub> [mH] | R <sub>cu</sub> [mΩ] | Tripped Power Dissipation [W] | f <sub>RES</sub> [MHz] | Weight [g] | Housing | 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 |
| 2                  | 1.8                 | 57                   | 0.23                          | 3                      | 6 g        | 2B      | 45                  | DKFP-B22B-021Q |

| I <sub>n</sub> [A] | L <sub>n</sub> [mH] | R <sub>DC</sub> [mΩ] | Tripped Power Dissipation [W] | f <sub>RES</sub> [MHz] | Weight [g] | Housing | Packing unit [pcs.] | Order Number   |
|--------------------|---------------------|----------------------|-------------------------------|------------------------|------------|---------|---------------------|----------------|
| 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      | 32                  | 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      | 35                  | 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      | 32                  | 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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