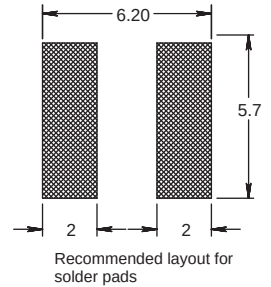
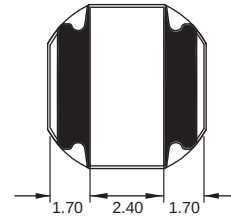
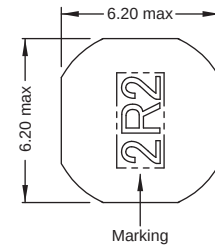
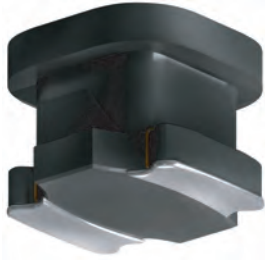


# 242418 FPS

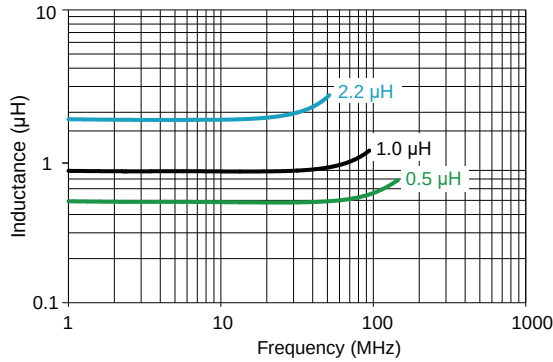
Semi-shielded

Engineer's Kit: EK-242418FPS-X

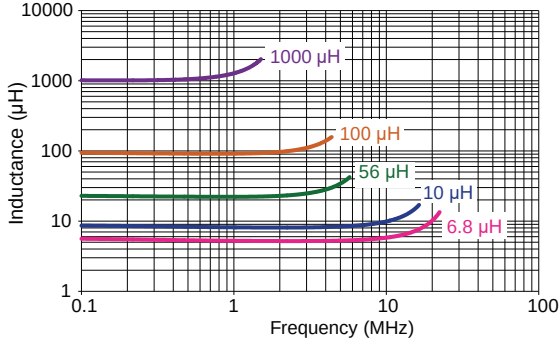


| L (μH)     | H max |
|------------|-------|
| 0.5 - 6.8  | 4.65  |
| 8.2 - 3300 | 4.50  |

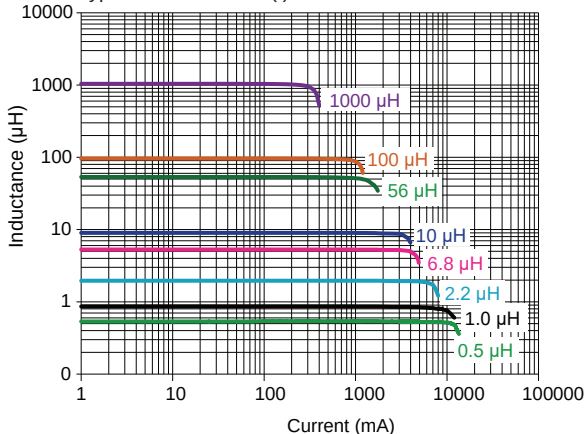
Typical Ls vs Frequency (f)



Typical Ls vs Frequency (f)



Typical Ls vs Current (I)



| Part No             | Inductance<br>L (μH) | fL<br>(kHz) | Tol<br>± (%) | DCR<br>max<br>(mΩ) | Rated DC Current<br>Isat (A) | Irms (A) |
|---------------------|----------------------|-------------|--------------|--------------------|------------------------------|----------|
| 242418FPS-R50N-01   | 0.5                  | 100 @ 1V    | 30           | 12                 | 10.5                         | 7.1      |
| 242418FPS-1R0N-01   | 1.0                  | 100 @ 1V    | 30           | 13                 | 8.60                         | 6.5      |
| 242418FPS-1R3N-01   | 1.3                  | 100 @ 1V    | 30           | 14                 | 8.00                         | 6.0      |
| 242418FPS-1R8N-01   | 1.8                  | 100 @ 1V    | 30           | 16                 | 7.00                         | 5.3      |
| 242418FPS-2R2N-01   | 2.2                  | 100 @ 1V    | 30           | 17                 | 6.10                         | 5.0      |
| 242418FPS-3R0N-01   | 3.0                  | 100 @ 1V    | 30           | 22                 | 5.00                         | 4.8      |
| 242418FPS-3R3N-01   | 3.3                  | 100 @ 1V    | 30           | 22                 | 4.50                         | 4.5      |
| 242418FPS-4R5N-01   | 4.5                  | 100 @ 1V    | 30           | 30                 | 4.30                         | 3.8      |
| 242418FPS-4R7N-01   | 4.7                  | 100 @ 1V    | 30           | 30                 | 4.00                         | 3.7      |
| 242418FPS-5R6N-01   | 5.6                  | 100 @ 1V    | 30           | 34                 | 3.80                         | 3.6      |
| 242418FPS-6R3N-01   | 6.3                  | 100 @ 1V    | 30           | 39                 | 3.80                         | 3.6      |
| 242418FPS-6R8N-01   | 6.8                  | 100 @ 1V    | 30           | 44                 | 3.60                         | 3.5      |
| * 242418FPS-8R2N-01 | 8.2                  | 100 @ 1V    | 30           | 53.3               | 3.20                         | 3.1      |
| * 242418FPS-100M-01 | 10                   | 100 @ 1V    | 20           | 54                 | 3.10                         | 3.0      |
| * 242418FPS-150M-01 | 15                   | 100 @ 1V    | 20           | 96                 | 2.30                         | 2.3      |
| * 242418FPS-220M-01 | 22                   | 100 @ 1V    | 20           | 134                | 1.90                         | 1.9      |
| * 242418FPS-330M-01 | 33                   | 100 @ 1V    | 20           | 204                | 1.50                         | 1.5      |
| * 242418FPS-470M-01 | 47                   | 100 @ 1V    | 20           | 252                | 1.30                         | 1.3      |
| * 242418FPS-560M-01 | 56                   | 100 @ 1V    | 20           | 324                | 1.20                         | 1.2      |
| * 242418FPS-680M-01 | 68                   | 100 @ 1V    | 20           | 390                | 1.00                         | 1.0      |
| * 242418FPS-101M-01 | 100                  | 100 @ 1V    | 20           | 552                | 0.90                         | 0.9      |
| * 242418FPS-151M-01 | 150                  | 100 @ 1V    | 20           | 810                | 0.85                         | 1.0      |
| * 242418FPS-221M-01 | 220                  | 100 @ 1V    | 20           | 1104               | 0.55                         | 0.50     |
| * 242418FPS-331M-01 | 330                  | 100 @ 1V    | 20           | 1700               | 0.55                         | 0.50     |
| * 242418FPS-471M-01 | 470                  | 100 @ 1V    | 20           | 2050               | 0.50                         | 0.50     |
| * 242418FPS-681M-01 | 680                  | 100 @ 1V    | 20           | 3185               | 0.40                         | 0.40     |
| * 242418FPS-821M-01 | 820                  | 100 @ 1V    | 20           | 3565               | 0.35                         | 0.35     |
| * 242418FPS-102M-01 | 1000                 | 100 @ 1V    | 20           | 6218               | 0.25                         | 0.25     |
| * 242418FPS-332M-01 | 3300                 | 100 @ 1V    | 20           | 20000              | 0.15                         | 0.14     |

Core Material: Ferrite

Revision date: 18 Jun 2025

SPQ: Taped / Reel 1000 [-01]

Remarks:

\* : The total length and width of component including epoxy is 6.8mm max.