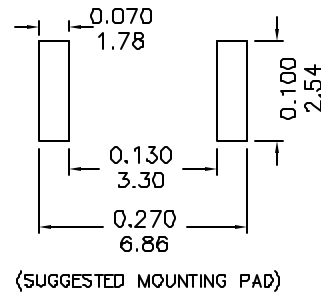
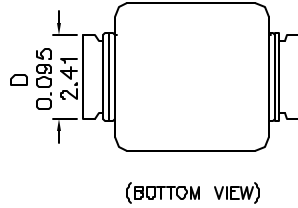
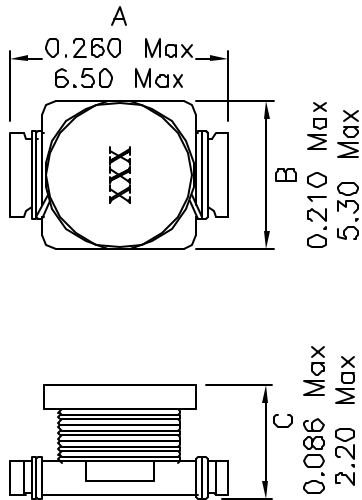
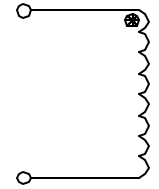


## XFS1MDR1714LP SERIES INDUCTORS



### Schematic:



UNLESS OTHERWISE SPECIFIED  
TOLERANCES:  
.xxx  $\pm 0.010$   
.xx  $\pm 0.25$

Dimensions in INCH  
in MM

| Part Number       | Inductance (1)<br>( $\mu\text{H} \pm 20\%$ ) | DCR Max<br>(Ohms) | SRF ref<br>(MHz) | I SAT (2)<br>(A) | Irms (3)<br>(A rms) |
|-------------------|----------------------------------------------|-------------------|------------------|------------------|---------------------|
| XFS1MDR1714LP-102 | 1.0                                          | 0.04              | 230              | 2.5              | 2.3                 |
| XFS1MDR1714LP-152 | 1.5                                          | 0.06              | 180              | 2.2              | 2.1                 |
| XFS1MDR1714LP-222 | 2.2                                          | 0.07              | 140              | 1.8              | 1.7                 |
| XFS1MDR1714LP-332 | 3.3                                          | 0.10              | 110              | 1.4              | 1.3                 |
| XFS1MDR1714LP-472 | 4.7                                          | 0.12              | 100              | 1.2              | 1.1                 |
| XFS1MDR1714LP-682 | 6.8                                          | 0.19              | 80               | 1.1              | 1.0                 |
| XFS1MDR1714LP-103 | 10                                           | 0.30              | 60               | 1.0              | 0.90                |
| XFS1MDR1714LP-153 | 15                                           | 0.40              | 45               | 0.8              | 0.70                |
| XFS1MDR1714LP-223 | 22                                           | 0.54              | 35               | 0.6              | 0.50                |
| XFS1MDR1714LP-333 | 33                                           | 0.74              | 30               | 0.5              | 0.45                |
| XFS1MDR1714LP-473 | 47                                           | 1.10              | 22               | 0.45             | 0.40                |
| XFS1MDR1714LP-683 | 68                                           | 1.60              | 20               | 0.35             | 0.35                |
| XFS1MDR1714LP-104 | 100                                          | 2.30              | 15               | 0.30             | 0.30                |
| XFS1MDR1714LP-154 | 150                                          | 3.20              | 10               | 0.25             | 0.25                |
| XFS1MDR1714LP-224 | 220                                          | 5.70              | 9                | 0.20             | 0.18                |
| XFS1MDR1714LP-334 | 330                                          | 8.20              | 8                | 0.16             | 0.16                |
| XFS1MDR1714LP-474 | 470                                          | 10.8              | 7                | 0.14             | 0.12                |
| XFS1MDR1714LP-684 | 680                                          | 17.2              | 5                | 0.12             | 0.10                |
| XFS1MDR1714LP-105 | 1000                                         | 22.6              | 4                | 0.08             | 0.08                |

(1) Inductance test @100HKz 0.1Vrms

(2) Inductance drop = 10% typ at rated Isat.

(3) T=40°C  $\Delta$ se typ. at Irms.

(4) Operating temperature range -40°C to +85°C

(5) Electrical specifications at 25°C.

### Notes:

1. Solderability: Leads shall meet MIL-STD-202G, Method 208H for solderability.
2. Flammability: UL94V-0
3. ASTM oxygen index: > 28%
4. Insulation System: Class F 155°C, UL file E151556
5. Operating Temperature Range: All listed parameters are to be within tolerance from -40°C to +85°C
6. Storage Temperature Range: -55°C to +125°C
7. Aqueous wash compatible
8. SMD Lead Coplanarity:  $\pm 0.004"$  (0.102mm)
9. Electrical and mechanical specifications 100% tested
10. RoHS Compliant Component