

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS FASDRH3818,5018 SERIES



FEATURES:

Magnetically Shielded Structure
Low DC Resistance
Large current up to 2.7A
Excellent Mechanical Strength
High Reliability and Excellent Solderability
Low and square Profile
High heat resistance

OPTIONS:

Packaging:Tape & Reel is standard
[Qty:2500pcs]
Bulk packaging available for smaller quantities
Tolerance:10% and 5% is standard
tighter tolerances available

COMMON APPLICATIONS:

VCRs, Notebook, DC/DC Converters
Video Digital Cameras
Communication System
Automotive Systems Power supplier
LCD PDP Televisions
Hard Disk Drives, Topset, XDSL
Network Systems
Computer Peripheral Equipment

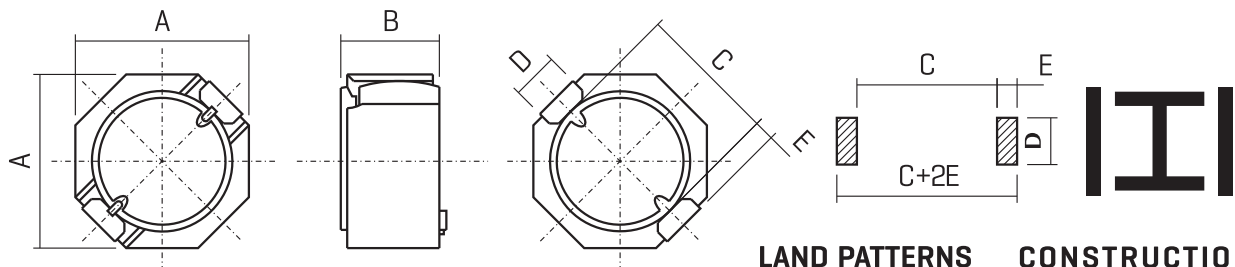
ELECTRICAL CHARACTERISTICS

Part Number	L (μH)	Test Freq [kHz]	DCR ohm Max	IDC Max A
FASDRH3818-1R0M	1.0	100	0.030	1.80
FASDRH3818-2R2M	2.2	100	0.058	1.50
FASDRH3818-3R3M	3.3	100	0.064	1.30
FASDRH3818-4R7M	4.7	100	0.146	1.10
FASDRH3818-5R6M	5.6	100	0.176	0.95
FASDRH3818-6R8M	6.8	100	0.238	0.90
FASDRH3818-8R2M	8.2	100	0.272	0.80
FASDRH3818-10M	10	1	0.299	0.70
FASDRH3818-15M	15	1	0.472	0.61
FASDRH3818-22M	22	1	0.592	0.52
FASDRH3818-27M	27	1	0.630	0.44
FASDRH3818-33M	33	1	1.075	0.43
FASDRH3818-47M	47	1	1.309	0.34
FASDRH3818-68M	68	1	2.613	0.25
FASDRH3818-82M	82	1	2.950	0.20
FASDRH3818-101M	100	1	3.255	0.19
FASDRH3818-151M	150	1	3.500	0.12

Part Number	L (μH)	Test Freq [kHz]	DCR ohm Max	IDC Max A
FASDRH5018-1R2M	1.2	100	0.054	1.80
FASDRH5018-1R8M	1.8	100	0.065	1.60
FASDRH5018-2R3M	2.3	100	0.076	1.50
FASDRH5018-3R6M	3.6	100	0.097	1.20
FASDRH5018-4R3M	4.3	100	0.100	1.10
FASDRH5018-5R1M	5.1	100	0.130	1.00
FASDRH5018-6R8M	6.8	100	0.150	0.94
FASDRH5018-10M	10	100	0.220	0.80
FASDRH5018-15M	15	100	0.325	0.64
FASDRH5018-18M	18	100	0.380	0.56
FASDRH5018-22M	22	100	0.540	0.49
FASDRH5018-33M	33	100	0.770	0.41
FASDRH5018-47M	47	100	1.120	0.33

Note:1. K=±10%,M=±20%,N=±30%

PHYSICAL CHARACTERISTICS & TECHNICAL INFORMATION



DIMENSIONS IN: mm

Part number	A	B	C	D	E	C+2E
FASDRH3818	3.85±0.	1.8Max	3.2	1.6	0.5	4.2
FASDRH5018	5.20Max	3.0Max	4.2±0.	1.4±0.	0.6±0.	5.4

Inductance Testing: HP4284A [Equivalent acceptable]

DCR:QuadTech 1880 Milliohmmeter Q- HP4342A - SRF-HP4191A IDCMax

Current is decreased 10% against its initial value

Operating temperature: -40°C to +105°C

Storage temperature: -40°C to +105°C

Solder methods: Vapor Phase,Infrared Reflow

Resistance to soldering heat:260°C for 10 seconds

Solvent resistance: Conforms to MIL-STD-202E

Marking: Inductance & Tolerance

Note:All specifications subject to change without notice

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

FASDRH5020,5028 SERIES



FEATURES:

- Magnetically Shielded Structure
- Low DC Resistance
- Large current up to 2.7A
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

OPTIONS:

- Packaging:Tape & Reel is standard (Qty:2500pcs)
- Bulk packaging available for smaller quantities
- Tolerance:10% and 5% is standard tighter tolerances available

COMMON APPLICATIONS:

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Communication System
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment

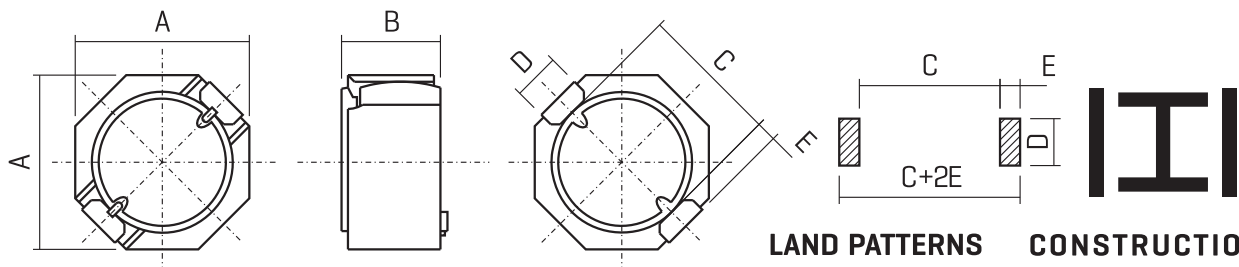
ELECTRICAL CHARACTERISTICS

Part Number	L (μH)	Test Freq [kHz]	DCR ohm Max	IDC Max A
FASDRH5020-1R2M	1.2	100	0.044	2.15
FASDRH5020-2R2M	2.2	100	0.059	1.63
FASDRH5020-3R3M	3.3	100	0.062	1.50
FASDRH5020-4R7M	4.7	100	0.087	1.14
FASDRH5020-6R8M	6.8	100	0.105	0.95
FASDRH5020-8R2M	8.2	100	0.139	0.90
FASDRH5020-100M	10	1	0.150	0.76
FASDRH5020-150M	15	1	0.210	0.63
FASDRH5020-220M	22	1	0.275	0.56
FASDRH5020-330M	33	1	0.455	0.44
FASDRH5020-470M	47	1	0.730	0.35
FASDRH5020-680M	68	1	0.935	0.30
FASDRH5020-101M	100	1	1.500	0.23
FASDRH5020-121M	120	1	1.910	0.22
FASDRH5020-151M	150	1	2.680	0.21
FASDRH5020-181M	180	1	3.040	0.20
FASDRH5020-221M	220	1	3.520	0.195
FASDRH5020-271M	270	1	4.380	0.193
FASDRH5020-331M	330	1	5.560	0.190
FASDRH5020-471M	470	1	7.820	0.180

Part Number	L (μH)	Test Freq [kHz]	DCR ohm Max	IDC Max A
FASDRH5028-1R0M	1.0	100	0.015	4.00
FASDRH5028-2R2M	2.2	100	0.029	2.41
FASDRH5028-3R3M	3.3	100	0.034	2.36
FASDRH5028-4R7M	4.7	100	0.045	1.87
FASDRH5028-5R6M	5.6	100	0.052	1.60
FASDRH5028-6R8M	6.8	100	0.068	1.51
FASDRH5028-100M	10	1	0.090	1.33
FASDRH5028-150M	15	1	0.142	1.05
FASDRH5028-220M	22	1	0.208	0.86
FASDRH5028-330M	33	1	0.257	0.72
FASDRH5028-470M	47	1	0.352	0.62
FASDRH5028-680M	68	1	0.525	0.51
FASDRH5028-101M	100	1	0.801	0.43
FASDRH5028-121M	120	1	0.850	0.34
FASDRH5028-151M	150	1	1.100	0.26
FASDRH5028-181M	180	1	1.190	0.24
FASDRH5028-221M	220	1	1.530	0.20

Note:1. K=±10%,M=±20%,N=±30%

PHYSICAL CHARACTERISTICS & TECHNICAL INFORMATION



DIMENSIONS IN: mm

Part number	A	B	C	D	E	C+2E
FASDRH5020	5.00±0.3	2.0Max	4.2	1.6	0.6	5.4
FASDRH5028	5.30±0.3	2.8Max	4.2	1.6	0.6	5.4

Induc ance Testing: HP4284A [Equivalent acceptable]
 DCR:QuadTech 1880 Milliohmmer Q- HP4342A - SRF-HP4191A IDCMax
 Current is decreased 10% against its initial value
 Operating temperature: -40°C to +105°C
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