

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS FASDRH103-104 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: 2000pcs]
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
FASDRH103-100M	10	100	0.0581	2.70
FASDRH103-120M	12	100	0.0721	2.25
FASDRH103-150M	15	100	0.0865	2.22
FASDRH103-180M	18	100	0.1161	1.90
FASDRH103-220M	22	100	0.1454	1.78
FASDRH103-270M	27	100	0.1759	1.63
FASDRH103-330M	33	100	0.2134	1.46
FASDRH103-390M	39	100	0.2689	1.32
FASDRH103-470M	47	100	0.2986	1.18
FASDRH103-560M	56	100	0.3358	1.10
FASDRH103-680M	68	100	0.4513	1.04
FASDRH103-820M	82	100	0.5138	0.94
FASDRH103-101M	100	100	0.7000	0.84
FASDRH103-121M	120	100	0.7650	0.76
FASDRH103-151M	150	100	0.8763	0.70
FASDRH104-1R3N	1.3	100	0.008	10.0
FASDRH104-2R5N	2.5	100	0.010	7.50
FASDRH104-3R8N	3.8	100	0.013	6.00
FASDRH104-5R2N	5.2	100	0.022	5.50
FASDRH104-7R0N	7.0	100	0.027	4.80
FASDRH104-100M	10	100	0.035	4.40
FASDRH104-150M	15	100	0.050	3.60
FASDRH104-220M	22	100	0.073	2.90
FASDRH104-330M	33	100	0.093	2.30
FASDRH104-470M	47	100	0.128	2.10
FASDRH104-680M	68	100	0.213	1.50
FASDRH104-101M	100	100	0.304	1.35
FASDRH104-151M	150	100	0.506	1.15
FASDRH104-221M	220	100	0.756	0.92
FASDRH104-331M	330	100	1.090	0.70

Note: 1. K=±10%, M=±20%, N=±30%

TECHNICAL INFORMATION

Inductance Testing: HP4284A [Equivalent acceptable]

DCR: QuadTech 1880 Milliohm meter

Q- HP4342A - SRF-HP4191A

IDC Max 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

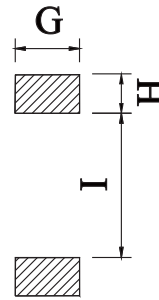
Resistance to soldering heat: 260°C for 10 seconds

Solvent resistance: Conforms to MIL-STD-202E

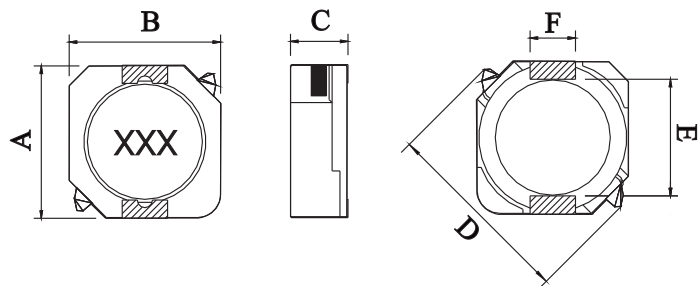
Marking: Inductance & Tolerance

Note: All specifications subject to change without notice.

PHYSICAL CHARACTERISTICS



LAND PATTERNS



CONSTRUCTION



DIMENSIONS IN: mm

Part number	A	B	C	D	E	F	G	H	I
FASDRH103	10.3Max	10.4Max	3.0Max	13.5Max	7.7	3.0	3.6	1.7	7.3
FASDRH104	10.3Max	10.4Max	4.0Max	13.5Max	7.7	3.0	3.6	1.7	7.3

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS FASDRH105 SERIES



FEATURES:

Magnetically Shielded Structure
Low DC Resistance
Large current up to 3.45A
Excellent Mechanical Strength
High Reliability and Excellent Solderability
Low and square Profile
High heat resistance

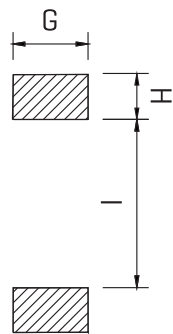
OPTIONS:

Packaging: Tape & Reel is standard
(Qty: 2000 pcs)
Bulk packaging available for smaller quantities
Tolerance: 10% and 5% is standard
tighter tolerances available

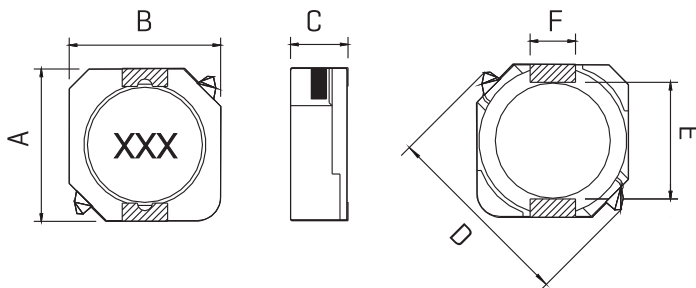
COMMON APPLICATIONS:

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

PHYSICAL CHARACTERISTICS:



LAND PATTERNS



DIMENSIONS IN: mm

Part number	A	B	C	D	E	F	G	H	I
FASDRH105	10.3Max	10.4Max	5.0Max	13.5Max	7.7	3.0	3.6	1.7	7.3

CONSTRUCTION



ELECTRICAL CHARACTERISTICS

Part Number	L [μH]	Test Freq [kHz]	DCR ohm Max	IDC Max A
FASDRH105-100M	10	100	0.0258	3.45
FASDRH105-120M	12	100	0.0320	3.40
FASDRH105-150M	15	100	0.0400	2.83
FASDRH105-180M	18	100	0.0460	2.62
FASDRH105-220M	22	100	0.0585	2.44
FASDRH105-270M	27	100	0.0654	2.24
FASDRH105-330M	33	100	0.0814	1.88
FASDRH105-390M	39	100	0.1031	1.70
FASDRH105-470M	47	100	0.1221	1.56
FASDRH105-560M	56	100	0.1448	1.39
FASDRH105-680M	68	100	0.1930	1.36
FASDRH105-820M	82	100	0.2194	1.20
FASDRH105-101M	100	100	0.2470	1.09
FASDRH105-121M	120	100	0.2984	1.00
FASDRH105-151M	150	100	0.3551	0.91
FASDRH105-181M	180	100	0.3943	0.84
FASDRH105-221M	220	100	0.4838	0.75
FASDRH105-271M	270	100	0.6325	0.68
FASDRH105-331M	330	100	0.7800	0.60
FASDRH105-391M	390	100	0.9575	0.57
FASDRH105-471M	470	100	1.2204	0.50
FASDRH105-561M	560	100	1.3524	0.47
FASDRH105-681M	680	100	1.5192	0.43
FASDRH105-821M	820	100	1.6944	0.39
FASDRH105-102M	1000	100	1.9464	0.35

Note: 1. K=±10%, M=±20%, N=±30%

TECHNICAL INFORMATION:

Inductance Testing: HP4284A, HP4285A or equivalent
RDC: QuadTech 1880 Milliohm meter
Q- HP4342A
SRF- HP4191A or HP4194A
Rated Current L value drop 10% typ. at IDC against its initial value
Temperature rise 40°C Max
Reference ambient temperature
Solderability: 75% of the lead wire shall be covered
Soldering Methods: Wave, Reflow
Operating Temperature: -25°C to +85°C
Storage Temperature: -55°C to +125°C
Terminal bending strength: 24.5N Min
Moisture resistance
 $\Delta L/L \leq \pm 10\%$ $\Delta Q/Q \leq \pm 25\%$