Type BRI3D
(1.2 ~ 47)µH

Low profile and high current
Low cost
Magnetically shielded
RoHS Compliant

TFC Part No.	Marking	Inductance L (µH)	Test Freq. (0.1V)	DCR max.(Typ.) (mΩ)	Saturation rated current (A) max.		Temperature rise current (A) max.
					20˚C	100˚C	
BRI3D12 - 1R2N	1.2	100 KHz	81 (65)	1.60	1.40		1.30
BRI3D12 - 1R5N	1.5	100 KHz	100 (80)	1.40	1.20		1.10
BRI3D12 - 2R2N	2.2	100 KHz	125 (100)	1.20	0.90		0.92
BRI3D12 - 2R7N	2.7	100 KHz	188 (150)	1.10	0.85		0.87
BRI3D12 - 3R9N	3.9	100 KHz	256 (205)	1.00	0.80		0.83
BRI3D12 - 4R7N	4.7	100 KHz	287 (230)	0.90	0.70		0.80
BRI3D12 - 5R6N	5.6	100 KHz	380 (305)	0.80	0.60		0.75
BRI3D12 - 6R8N	6.8	100 KHz	450 (360)	0.70	0.55		0.65
BRI3D12 - 8R2N	8.2	100 KHz	500 (400)	0.60	0.50		0.55
BRI3D12 - 100M	10.0	100 KHz	650 (520)	0.50	0.35		0.45
BRI3D12 - 120M	12.0	100 KHz	687 (550)	0.45	0.30		0.40
BRI3D12 - 150M	15.0	100 KHz	787 (630)	0.40	0.27		0.37
BRI3D12 - 180M	18.0	100 KHz	875 (700)	0.35	0.25		0.35
BRI3D12 - 220M	22.0	100 KHz	962 (770)	0.30	0.20		0.30
BRI3D15 - 1R0N	1.0	100 KHz	78 (62)	2.00	1.80		1.80
BRI3D15 - 1R5N	1.5	100 KHz	94 (75)	1.70	1.50		1.70
BRI3D15 - 2R2N	2.2	100 KHz	106 (85)	1.40	1.20		1.60
BRI3D15 - 2R7N	2.7	100 KHz	118 (95)	1.30	1.10		1.50
BRI3D15 - 3R3N	3.3	100 KHz	131 (105)	1.10	1.00		1.40
BRI3D15 - 3R9N	3.9	100 KHz	143 (115)	1.00	0.90		1.30
BRI3D15 - 4R7N	4.7	100 KHz	162 (130)	0.95	0.85		1.20
BRI3D15 - 5R6N	5.6	100 KHz	175 (140)	0.90	0.80		1.10
BRI3D15 - 6R8N	6.8	100 KHz	212 (170)	0.85	0.75		1.00
BRI3D15 - 8R2N	8.2	100 KHz	237 (190)	0.80	0.70		0.95
BRI3D15 - 100M	10.0	100 KHz	262 (210)	0.70	0.5		0.90
BRI3D15 - 120M	12.0	100 KHz	350 (280)	0.60	0.45		0.80
BRI3D15 - 150M	15.0	100 KHz	456 (365)	0.55	0.42		0.75
BRI3D15 - 180M	18.0	100 KHz	506 (405)	0.50	0.40		0.70
BRI3D15 - 220M	22.0	100 KHz	575 (460)	0.45	0.37		0.55
BRI3D15 - 270M	27.0	100 KHz	675 (540)	0.40	0.33		0.53
BRI3D15 - 330M	33.0	100 KHz	937 (750)	0.35	0.30		0.50

TFC Part No.	Marking	Inductance L (µH)	Test Freq. (0.1V)	DCR max.(Typ.) (mΩ)	Saturation rated current (A) max.		Temperature rise current (A) max.
					20°C	100°C	
BRI3D18 - 1R2N	1.2	100 KHz	88 (70)	2.00	1.80		1.90
BRI3D18 - 1R8N	1.8	100 KHz	100 (80)	1.80	1.60		1.80
BRI3D18 - 2R2N	2.2	100 KHz	113 (90)	1.60	1.40		1.70
BRI3D18 - 2R7N	2.7	100 KHz	125 (100)	1.40	1.20		1.55
BRI3D18 - 3R3N	3.3	100 KHz	138 (110)	1.20	1.10		1.45
BRI3D18 - 3R9N	3.9	100 KHz	150 (120)	1.10	1.00		1.35
BRI3D18 - 4R7N	4.7	100 KHz	162 (130)	1.00	0.90		1.25
BRI3D18 - 5R6N	5.6	100 KHz	181 (145)	0.95	0.85		1.15
BRI3D18 - 6R8N	6.8	100 KHz	200 (160)	0.90	0.80		1.05
BRI3D18 - 8R2N	8.2	100 KHz	225 (180)	0.80	0.75		0.95
BRI3D18 - 100M	10.0	100 KHz	250 (200)	0.75	0.70		0.85
BRI3D18 - 120M	12.0	100 KHz	337 (270)	0.65	0.60		0.70
BRI3D18 - 150M	15.0	100 KHz	393 (315)	0.60	0.55		0.65
BRI3D18 - 180M	18.0	100 KHz	437 (350)	0.55	0.50		0.60
BRI3D18 - 220M	22.0	100 KHz	563 (450)	0.50	0.45		0.55
BRI3D18 - 270M	27.0	100 KHz	637 (510)	0.45	0.40		0.45
BRI3D18 - 330M	33.0	100 KHz	712 (570)	0.40	0.35		0.40
BRI3D18 - 390M	39.0	100 KHz	956 (765)	0.38	0.32		0.35
BRI3D18 - 470M	47.0	100 KHz	1100 (880)	0.32	0.28		0.30

Electrical specification

Inductance range	BRI3D12 1.2~22uH 1.60~0.30A
	BRI3D15 1.0~47uH 2.00~0.28A
	BRI3D18 1.2~47uH 2.00~0.32A
Saturation rated current	The current when the inductance becomes 30% lower than its initial value,(Ta=20℃)
Temperature rise current	The current when temperature of coil increases up to max. .ΔT=40˚C, (Ta=20˚C)
Operating temperature	-20 ℃ to 80 ℃
Test equipment and set up	L tested by Agilent 4284A Precision LCR meter
	DCR tested by Milli-ohm meter
	Electrical specifications at 25℃

BRI3D dimensions (mm)	A	B (max.)	C	D	E	F	G	H	I	J
BRI3D12	3.8±0.2	1.2	1.1	2.4	0.7	0.6	4.0	1.5	1.4	2.0
BRI3D15	3.8±0.2	1.5	1.1	2.4	0.7	0.6	4.0	1.5	1.4	2.0
BRI3D18	3.8±0.2	1.8	1.1	2.4	0.7	0.6	4.0	1.5	1.4	2.0

Ordering information :

BRI3D12 - 220 M
   (1)   (2) (3)

(1) **Type:** **S**urface **M**ountable **T**ype.
Style: Copper **B**ase with DR core and **RI** core,
3D is 3.8mm square and **12** is about 1.2mm heigh

(2) **Inductance** : 220 for 22.0 uH

(3) **Inductance tolerance: N**: ± 30%; **M**: ± 20%

BRI3D drawing
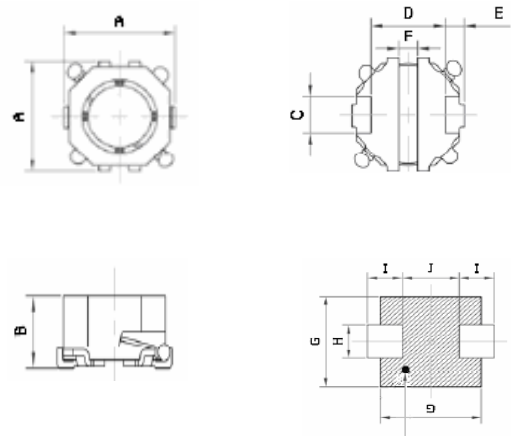
Wire in a slash part is forbidden