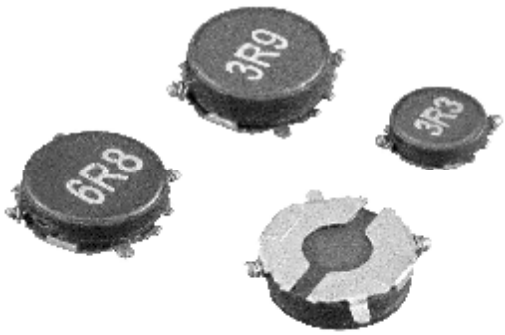
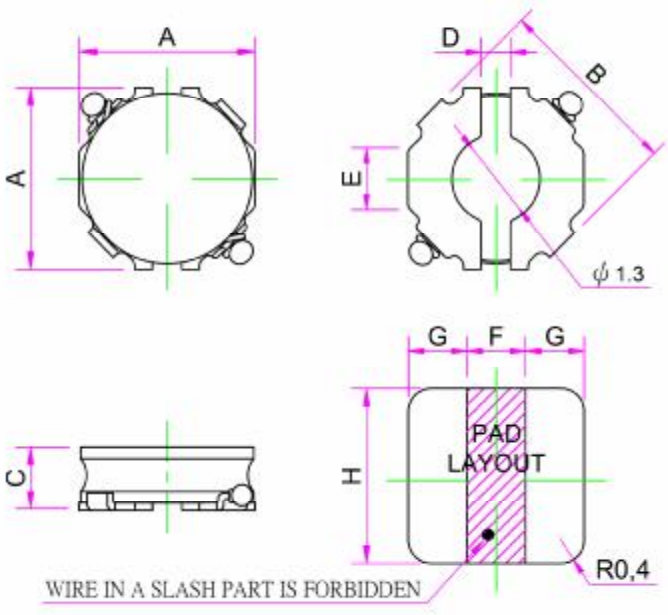
SHIELDED SMT POWER INDUCTORS
BDE 2D10/2D12/2D15 TYPE

Shape and size: (Dimensions are in mm)





ITEM	A	B	C（max）	D	E	F	G	H
BDE2D10	3.0±0.2	3.2	1.0	0.5	1.0	1.0	1.0	3.0
BDE2D12	3.0±0.2	3.2	1.2	0.5	1.0	1.0	1.0	3.0
BDE2D15	3.0±0.2	3.2	1.5	0.5	1.0	1.0	1.0	3.0

Features:

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction with magnetic resin.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Ordering information:

BDE2D10 - 100 M

(1) (2) (3)

(1) Type: Surface mountable type.
Style: Copper Base with DR core and magnetic Epoxy resin.
2D is 3.0mm square and 10 is about 1.0mm height.

(2) Inductance: 100 for 10.0 uH.

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

Inductance and rated current ranges:

- BDE2D10 1.0~22uH 1.40~0.28A
- BDE2D12 1.2~47uH 1.70~0.25A
- BDE2D15 1.0~47uH 2.10~0.32A

- Test equipments:
L tested by Agilent 4284A Precision LCR meter.
DCR tested by Milli-ohm meter.
- Electrical specifications at 25℃.

Characteristics:

- 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. △T=40℃. (Ta=20℃)
- Operating temperature : -20 ℃ to 85 ℃.

Applications:

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.

SHIELDED SMT POWER INDUCTORS
BDE 2D10/2D12 TYPE

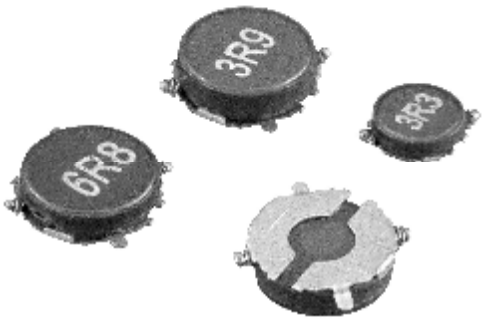
Part No.	Stamp	Inductance L (uH)	Test Freq (0.1V)	DCR mOHM Max. (Typ.)	Saturation Rated Current (A) Max.	Temperature Rise Current (A) Max.
BDE2D10-1R0N	1R0	1.0	100KHz	65(50)	1.40	1.50
BDE2D10-1R2N	1R2	1.2	100KHz	85(65)	1.30	1.40
BDE2D10-1R5N	1R5	1.5	100KHz	100(75)	1.20	1.30
BDE2D10-2R2N	2R2	2.2	100KHz	130(100)	1.10	1.10
BDE2D10-2R7N	2R7	2.7	100KHz	170(130)	0.95	1.00
BDE2D10-3R3N	3R3	3.3	100KHz	190(145)	0.87	0.90
BDE2D10-4R7N	4R7	4.7	100KHz	240(185)	0.75	0.80
BDE2D10-5R6N	5R6	5.6	100KHz	295(225)	0.68	0.75
BDE2D10-6R8N	6R8	6.8	100KHz	320(245)	0.60	0.70
BDE2D10-8R2N	8R2	8.2	100KHz	415(320)	0.55	0.65
BDE2D10-100M	100	10.0	100KHz	480(370)	0.50	0.60
BDE2D10-120M	120	12.0	100KHz	585(450)	0.37	0.55
BDE2D10-150M	150	15.0	100KHz	650(500)	0.33	0.50
BDE2D10-180M	180	18.0	100KHz	735(565)	0.30	0.45
BDE2D10-220M	220	22.0	100KHz	1040(800)	0.28	0.42

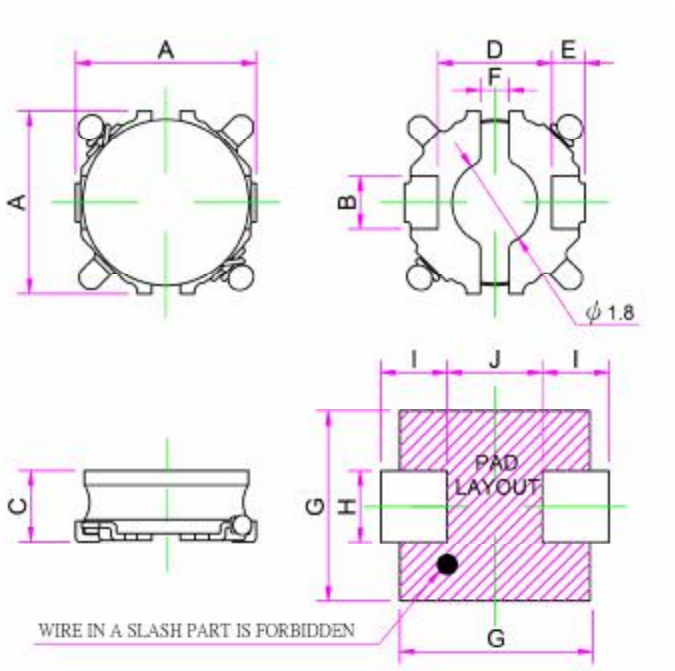
BDE2D12-1R2N	1R2	1.2	100KHz	70(55)	1.70	1.70
BDE2D12-1R5N	1R5	1.5	100KHz	80(60)	1.60	1.60
BDE2D12-1R8N	1R8	1.8	100KHz	90(70)	1.50	1.50
BDE2D12-2R2N	2R2	2.2	100KHz	105(80)	1.40	1.40
BDE2D12-2R7N	2R7	2.7	100KHz	130(100)	1.30	1.30
BDE2D12-3R3N	3R3	3.3	100KHz	145(110)	1.10	1.20
BDE2D12-3R9N	3R9	3.9	100KHz	180(140)	1.00	1.10
BDE2D12-4R7N	4R7	4.7	100KHz	195(150)	0.90	1.00
BDE2D12-5R6N	5R6	5.6	100KHz	215(165)	0.85	0.95
BDE2D12-6R8N	6R8	6.8	100KHz	260(200)	0.75	0.90
BDE2D12-8R2N	8R2	8.2	100KHz	315(240)	0.70	0.82
BDE2D12-100M	100	10.0	100KHz	325(250)	0.54	0.80
BDE2D12-120M	120	12.0	100KHz	390(300)	0.50	0.72
BDE2D12-150M	150	15.0	100KHz	475(365)	0.45	0.66
BDE2D12-180M	180	18.0	100KHz	630(485)	0.42	0.57
BDE2D12-220M	220	22.0	100KHz	735(565)	0.38	0.52
BDE2D12-270M	270	27.0	100KHz	940(725)	0.32	0.45
BDE2D12-330M	330	33.0	100KHz	1070(825)	0.30	0.42
BDE2D12-390M	390	39.0	100KHz	1240(955)	0.28	0.40
BDE2D12-470M	470	47.0	100KHz	1625(1250)	0.25	0.35

Part No.	Stamp	Inductance L (uH)	Test Freq (0.1V)	DCR mOHM Max. (Typ.)	Saturation Rated Current (A) Max.	Temperature Rise Current (A) Max.
BDE2D15-1R0N	1R0	1.0	100KHz	65(50)	2.10	1.80
BDE2D15-1R2N	1R2	1.2	100KHz	75(60)	2.00	1.70
BDE2D15-1R5N	1R5	1.5	100KHz	85(65)	1.80	1.60
BDE2D15-1R8N	1R8	1.8	100KHz	95(75)	1.60	1.50
BDE2D15-2R2N	2R2	2.2	100KHz	110(85)	1.50	1.40
BDE2D15-2R7N	2R7	2.7	100KHz	120(90)	1.40	1.35
BDE2D15-3R3N	3R3	3.3	100KHz	130(100)	1.20	1.30
BDE2D15-3R9N	3R9	3.9	100KHz	145(110)	1.10	1.25
BDE2D15-4R7N	4R7	4.7	100KHz	175(135)	1.00	1.10
BDE2D15-5R6N	5R6	5.6	100KHz	195(150)	0.95	1.05
BDE2D15-6R8N	6R8	6.8	100KHz	250(190)	0.87	0.94
BDE2D15-8R2N	8R2	8.2	100KHz	280(215)	0.80	0.83
BDE2D15-100M	100	10.0	100KHz	340(260)	0.70	0.75
BDE2D15-120M	120	12.0	100KHz	375(290)	0.65	0.70
BDE2D15-150M	150	15.0	100KHz	460(355)	0.56	0.64
BDE2D15-180M	180	18.0	100KHz	565(435)	0.52	0.58
BDE2D15-220M	220	22.0	100KHz	635(490)	0.47	0.55
BDE2D15-270M	270	27.0	100KHz	865(665)	0.42	0.50
BDE2D15-330M	330	33.0	100KHz	1005(775)	0.39	0.45
BDE2D15-390M	390	39.0	100KHz	1265(975)	0.35	0.40
BDE2D15-470M	470	47.0	100KHz	1475(1135)	0.32	0.38

SHIELDED SMT POWER INDUCTORS
BDE 3D12/3D15/3D18 TYPE

Shape and size: (Dimensions are in mm)





ITEM	A	B	C(max)	D	E	F	G	H	I	J
BDE3D12	3.8±0.2	1.1	1.2	2.4	0.7	0.6	4.0	1.5	1.4	2.0
BDE3D15	3.8±0.2	1.1	1.5	2.4	0.7	0.6	4.0	1.5	1.4	2.0
BDE3D18	3.8±0.2	1.1	1.8	2.4	0.7	0.6	4.0	1.5	1.4	2.0

Features:

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction with magnetic resin.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Ordering information:

BDE3D12 – 4R7 N

(1) (2) (3)

(1) Type: Surface mountable type.
Style: Copper Base with DR core and magnetic Epoxy resin.
3D is 3.8mm square and 12 is about 1.2mm height.

(2) Inductance: 4R7 for 4.7 uH.

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

Inductance and rated current ranges:

- BDE3D12 1.0~47uH 2.20~0.28A
- BDE3D15 1.0~47uH 2.70~0.35A
- BDE3D18 1.0~47uH 3.50~0.48A

- Test equipments :
  L tested by Agilent 4284A Precision LCR meter.
  DCR tested by Milli-ohm meter.
- Electrical specifications at 25℃.

Characteristics:

- 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. △T=40℃. (Ta=20℃)
- Operating temperature : -20 ℃ to 85 ℃.

Applications:

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.

SHIELDED SMT POWER INDUCTORS
BDE 3D12/3D15 TYPE

Part No.	Stamp	Inductance L (uH)	Test Freq (0.1V)	DCR mOHM Max. (Typ.)	Saturation Rated Current (A) Max.	Temperature Rise Current (A) Max.
BDE3D12-1R0N	1R0	1.0	100KHz	60(50)	2.20	1.50
BDE3D12-1R2N	1R2	1.2	100KHz	65(55)	2.00	1.40
BDE3D12-1R8N	1R8	1.8	100KHz	85(70)	1.80	1.30
BDE3D12-2R2N	2R2	2.2	100KHz	95(80)	1.60	1.20
BDE3D12-2R7N	2R7	2.7	100KHz	120(100)	1.40	1.05
BDE3D12-3R3N	3R3	3.3	100KHz	140(115)	1.30	1.00
BDE3D12-4R7N	4R7	4.7	100KHz	175(145)	1.10	0.90
BDE3D12-5R6N	5R6	5.6	100KHz	190(160)	1.00	0.84
BDE3D12-6R8N	6R8	6.8	100KHz	240(200)	0.90	0.80
BDE3D12-8R2N	8R2	8.2	100KHz	265(220)	0.84	0.77
BDE3D12-100M	100	10.0	100KHz	280(235)	0.65	0.75
BDE3D12-120M	120	12.0	100KHz	360(300)	0.60	0.65
BDE3D12-150M	150	15.0	100KHz	420(350)	0.55	0.60
BDE3D12-180M	180	18.0	100KHz	575(480)	0.48	0.50
BDE3D12-220M	220	22.0	100KHz	650(540)	0.45	0.48
BDE3D12-270M	270	27.0	100KHz	820(680)	0.38	0.42
BDE3D12-330M	330	33.0	100KHz	935(780)	0.35	0.42
BDE3D12-390M	390	39.0	100KHz	1090(910)	0.32	0.37
BDE3D12-470M	470	47.0	100KHz	1440(1200)	0.28	0.32

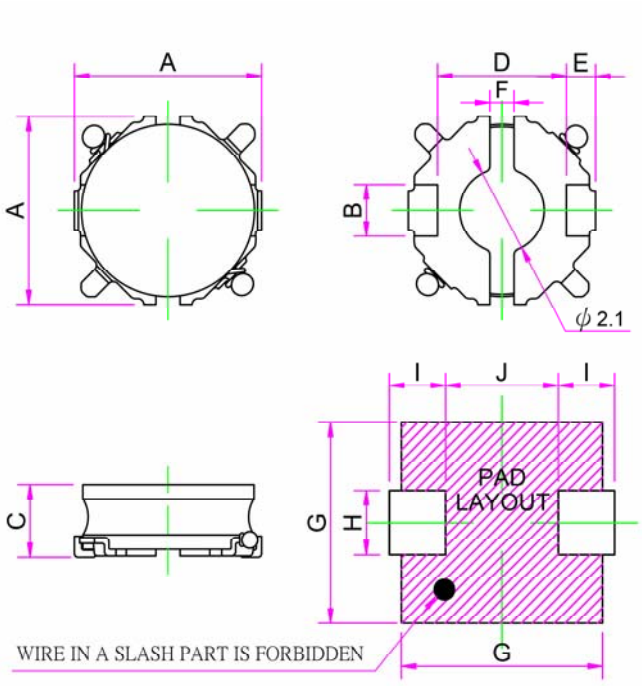
BDE3D15-1R0N	1R0	1.0	100KHz	60(50)	2.70	1.50
BDE3D15-1R2N	1R2	1.2	100KHz	70(60)	2.30	1.40
BDE3D15-1R8N	1R8	1.8	100KHz	85(70)	2.10	1.30
BDE3D15-2R2N	2R2	2.2	100KHz	95(80)	1.90	1.25
BDE3D15-2R7N	2R7	2.7	100KHz	105(90)	1.70	1.20
BDE3D15-3R3N	3R3	3.3	100KHz	120(100)	1.50	1.10
BDE3D15-3R9N	3R9	3.9	100KHz	130(110)	1.40	1.05
BDE3D15-4R7N	4R7	4.7	100KHz	140(120)	1.30	1.00
BDE3D15-5R6N	5R6	5.6	100KHz	150(125)	1.20	0.95
BDE3D15-6R8N	6R8	6.8	100KHz	180(150)	1.10	0.90
BDE3D15-8R2N	8R2	8.2	100KHz	215(180)	1.00	0.80
BDE3D15-100M	100	10.0	100KHz	245(205)	0.90	0.76
BDE3D15-120M	120	12.0	100KHz	290(240)	0.75	0.70
BDE3D15-150M	150	15.0	100KHz	335(280)	0.70	0.65
BDE3D15-180M	180	18.0	100KHz	430(360)	0.60	0.57
BDE3D15-220M	220	22.0	100KHz	480(400)	0.55	0.50
BDE3D15-270M	270	27.0	100KHz	635(530)	0.48	0.45
BDE3D15-330M	330	33.0	100KHz	720(600)	0.42	0.42
BDE3D15-390M	390	39.0	100KHz	940(785)	0.38	0.37
BDE3D15-470M	470	47.0	100KHz	1030(860)	0.35	0.35

SHIELDED SMT POWER INDUCTORS
BDE 3D18 TYPE

Part No.	Stamp	Inductance L (uH)	Test Freq (0.1V)	DCR mOHM Max. (Typ.)	Saturation Rated Current (A) Max.	Temperature Rise Current (A) Max.
BDE3D18-1R0N	1R0	1.0	100KHz	65(55)	3.50	1.60
BDE3D18-1R2N	1R2	1.2	100KHz	75(60)	3.10	1.50
BDE3D18-1R5N	1R5	1.5	100KHz	85(70)	2.80	1.40
BDE3D18-1R8N	1R8	1.8	100KHz	95(80)	2.60	1.35
BDE3D18-2R2N	2R2	2.2	100KHz	105(90)	2.40	1.25
BDE3D18-3R3N	3R3	3.3	100KHz	120(100)	2.20	1.20
BDE3D18-3R9N	3R9	3.9	100KHz	130(110)	2.00	1.15
BDE3D18-4R7N	4R7	4.7	100KHz	145(120)	1.80	1.10
BDE3D18-5R6N	5R6	5.6	100KHz	170(140)	1.60	1.00
BDE3D18-6R8N	6R8	6.8	100KHz	180(150)	1.50	0.95
BDE3D18-8R2N	8R2	8.2	100KHz	205(170)	1.40	0.82
BDE3D18-100M	100	10.0	100KHz	245(205)	1.10	0.75
BDE3D18-120M	120	12.0	100KHz	275(230)	1.00	0.70
BDE3D18-150M	150	15.0	100KHz	360(300)	0.90	0.62
BDE3D18-180M	180	18.0	100KHz	410(340)	0.85	0.58
BDE3D18-220M	220	22.0	100KHz	515(430)	0.75	0.52
BDE3D18-270M	270	27.0	100KHz	600(500)	0.70	0.48
BDE3D18-330M	330	33.0	100KHz	770(640)	0.60	0.42
BDE3D18-390M	390	39.0	100KHz	845(705)	0.55	0.40
BDE3D18-470M	470	47.0	100KHz	1160(965)	0.48	0.35

SHIELDED SMT POWER INDUCTORS
BDE 4D12/4D15 TYPE

Shape and size: (Dimensions are in mm)



ITEM	A	B	C(max)	D	E	F	G	H	I	J
BDE4D12	4.6±0.3	1.3	1.2	3.2	0.7	0.6	5.0	1.6	1.4	2.8
BDE4D15	4.6±0.3	1.3	1.5	3.2	0.7	0.6	5.0	1.6	1.4	2.8

Features:

- Automatic process.
- New designed terminal for low cost.
- Low profile and high current.
- Magnetically shielded construction with magnetic resin.
- Ideal for digital equipment and hand phone of new generation.
- RoHS compliant.

Ordering information:

BDE4D12 – 470 M

(1) (2) (3)

(1) Type: Surface mountable type.
Style: Copper Base with DR core and magnetic Epoxy resin.
4D is 4.6mm square and 12 is about 1.2mm height.

(2) Inductance: 470 for 47 uH.

(4) Inductance tolerance: N: ± 30%; M: ± 20%.

Inductance and rated current ranges:

- BDE4D12 1.2~47.0uH 2.10~0.28A
- BDE4D15 2.2~101.0uH 2.40~0.32A

- Test equipments:
  L tested by Agilent 4284A Precision LCR meter.
  DCR tested by Milli-ohm meter.
- Electrical specifications at 25℃.

Characteristics:

- 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. △T=40℃. (Ta=20℃)
- Operating temperature : -20 ℃ to 85 ℃.

Applications:

- Hand phone of new generation.
- DSC, DVC , PDA ,MP3, Hard disk drives products.
- DC to DC converters, etc.

Part No.	Stamp	Inductance L (uH)	Test Freq (0.1V)	DCR mOHM Max. (Typ.)	Saturation Rated Current (A) Max.	Temperature Rise Current (A) Max.
BDE4D12-1R2N	1R2	1.0	100KHz	65(55)	2.10	1.90
BDE4D12-1R8N	1R8	1.2	100KHz	80(65)	1.70	1.80
BDE4D12-2R2N	2R2	2.2	100KHz	90(75)	1.50	1.65
BDE4D12-3R3N	3R3	3.3	100KHz	110(90)	1.40	1.55
BDE4D12-3R9N	3R9	3.9	100KHz	120(100)	1.30	1.40
BDE4D12-4R7N	4R7	4.7	100KHz	145(120)	1.20	1.35
BDE4D12-5R6N	5R6	5.6	100KHz	155(130)	1.10	1.25
BDE4D12-6R8N	6R8	6.8	100KHz	175(145)	0.90	1.20
BDE4D12-8R2N	8R2	8.2	100KHz	215(180)	0.80	1.15
BDE4D12-100M	100	10.0	100KHz	240(200)	0.70	1.10
BDE4D12-120M	120	12.0	100KHz	295(245)	0.65	1.00
BDE4D12-150M	150	15.0	100KHz	335(280)	0.60	0.92
BDE4D12-180M	180	18.0	100KHz	415(345)	0.55	0.84
BDE4D12-220M	220	22.0	100KHz	445(370)	0.45	0.75
BDE4D12-270M	270	27.0	100KHz	590(490)	0.38	0.65
BDE4D12-330M	330	33.0	100KHz	660(550)	0.35	0.60
BDE4D12-390M	390	39.0	100KHz	755(630)	0.32	0.55
BDE4D12-470M	470	47.0	100KHz	990(825)	0.28	0.50

SHIELDED SMT POWER INDUCTORS
BDE 4D15 TYPE

Part No.	Stamp	Inductance L (uH)	Test Freq (0.1V)	DCR mOHM Max. (Typ.)	Saturation Rated Current (A) Max.	Temperature Rise Current (A) Max.
BDE4D15-2R2N	2R2	2.2	100KHz	**95(75)**	2.40	1.70
BDE4D15-2R7N	2R7	2.7	100KHz	105(90)	2.20	1.60
BDE4D15-3R3N	3R3	3.3	100KHz	120(100)	2.00	1.50
BDE4D15-3R9N	3R9	3.9	100KHz	140(115)	1.80	1.40
BDE4D15-4R7N	4R7	4.7	100KHz	150(125)	1.70	1.30
BDE4D15-5R6N	5R6	5.6	100KHz	170(140)	1.50	1.25
BDE4D15-6R8N	6R8	6.8	100KHz	180(150)	1.40	1.20
BDE4D15-8R2N	8R2	8.2	100KHz	205(170)	1.30	1.10
BDE4D15-100M	100	10.0	100KHz	240(200)	1.20	1.00
BDE4D15-120M	120	12.0	100KHz	290(240)	1.10	0.90
BDE4D15-150M	150	15.0	100KHz	325(270)	1.00	0.85
BDE4D15-180M	180	18.0	100KHz	420(350)	0.80	0.75
BDE4D15-220M	220	22.0	100KHz	445(370)	0.70	0.72
BDE4D15-270M	270	27.0	100KHz	490(410)	0.65	0.70
BDE4D15-330M	330	33.0	100KHz	630(525)	0.55	0.62
BDE4D15-390M	390	39.0	100KHz	720(600)	0.50	0.58
BDE4D15-470M	470	47.0	100KHz	900(750)	0.45	0.52
BDE4D15-560M	560	56.0	100KHz	1190(990)	0.42	0.45
BDE4D15-680M	680	68.0	100KHz	1345(1120)	0.40	0.42
BDE4D15-101M	101	100.0	100KHz	2065(1720)	0.32	0.35