•FEATURE

1. Low Profile and Compact Size
2. Low DC Resistance
3. SMD Drum Choke for power line / signal line of various size
4. Pass the CE/FCC Purpose.
5. Operating Temperature: -40 ~ +125 ℃
6. Compliant with AEC-Q200

•APPLICATION

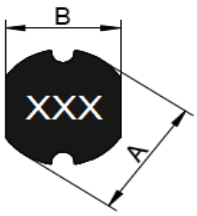
Mobil Device, Handheld Device, LowProfile Device, Panel.

•ORDERING INFORMATION

PIP	3015	U	-2R2	T	Q
Series	Dimension (W*H)	Material code	Impedance (Ω)	Tolerance K=±10%, M=±20% Y=±30%	AEC-Q

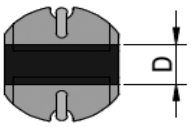
•SHAPE AND DIMENSION

Front View

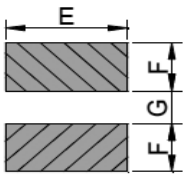


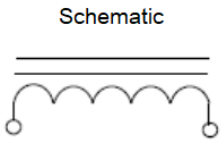
Side View

Bottom View



Recommend Pad Layout





•SPECIFICATION

Unit: mm

TYPE	A	B	C	D	E	F	G
3015	3.50±0.3	3.00±0.3	1.40 Max.	1.20 Ref.	3.20 Ref.	1.45 Ref.	1.00 Ref.
3016	3.50±0.3	3.00±0.3	1.60±0.3	1.20 Ref.	3.20 Ref.	1.45 Ref.	1.00 Ref.
3020	3.50±0.3	3.00±0.3	2.00±0.3	1.20 Ref.	3.20 Ref.	1.45 Ref.	1.00 Ref.
4032	4.50±0.3	4.00±0.3	3.20±0.3	1.20 Ref.	4.20 Ref.	1.95 Ref.	1.00 Ref.
5025	5.80±0.3	5.20±0.3	2.50±0.3	1.20 Ref.	5.60 Ref.	2.60 Ref.	1.00 Ref.
5035	5.80±0.3	5.20±0.3	3.50 Max.	1.20 Ref.	5.60 Ref.	2.60 Ref.	1.00 Ref.
5045	5.80±0.3	5.20±0.3	4.50±0.3	1.30 Ref.	5.60 Ref.	2.55 Ref.	1.10 Ref.
7035	7.80±0.3	7.00±0.3	3.50±0.3	2.10 Ref.	7.40 Ref.	3.25 Ref.	1.70 Ref.
7050	7.80±0.3	7.00±0.3	5.00±0.3	2.10 Ref.	7.40 Ref.	3.25 Ref.	1.70 Ref.
10040	10.00±0.4	9.00±0.3	4.20±0.3	2.10 Ref.	9.60 Ref.	4.45 Ref.	1.70 Ref.
10050	10.00±0.4	9.00±0.3	5.50±0.3	2.50 Ref.	9.60 Ref.	4.25 Ref.	2.10 Ref.
10070	10.00±0.4	9.00±0.3	7.50 Max.	2.10 Ref.	9.60 Ref.	4.45 Ref.	1.70 Ref.

●ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP3015-1R0T	1.0	M	0.060	1.40
PIP3015-2R2T	2.2	M	0.110	1.05
PIP3015-3R3T	3.3	M	0.150	0.80
PIP3015-4R7T	4.7	M	0.210	0.75
PIP3015-5R6T	5.6	M	0.250	0.65
PIP3015-6R8T	6.8	M	0.300	0.56
PIP3015-8R2T	8.2	M	0.380	0.50
PIP3015-100T	10	M,K	0.440	0.45
PIP3015-120T	12	M,K	0.500	0.43
PIP3015-150T	15	M,K	0.610	0.39
PIP3015-180T	18	M,K	0.730	0.32
PIP3015-220T	22	M,K	0.910	0.28
PIP3015-270T	27	M,K	1.150	0.26
PIP3015-330T	33	M,K	1.390	0.25
PIP3015-390T	39	M,K	1.880	0.23
PIP3015-470T	47	M,K	2.260	0.21
PIP3015-560T	56	M,K	2.690	0.20
PIP3015-680T	68	M,K	3.180	0.18
PIP3015-820T	82	M,K	3.670	0.16
PIP3015-101T	100	M,K	4.940	0.14
PIP3015-121T	120	M,K	5.350	0.12

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP3016-1R0T	1.0	M	0.048	1.60
PIP3016-1R5T	1.5	M	0.100	1.55
PIP3016-2R2T	2.2	M	0.078	1.47
PIP3016-3R3T	3.3	M	0.126	1.34
PIP3016-3R9T	3.9	M	0.140	1.24
PIP3016-4R7T	4.7	M	0.158	1.22
PIP3016-5R6T	5.6	M	0.186	1.09
PIP3016-6R8T	6.8	M	0.213	0.96
PIP3016-8R2T	8.2	M	0.238	0.84
PIP3016-100T	10	M,K	0.307	0.70
PIP3016-120T	12	M,K	0.372	0.65
PIP3016-150T	15	M,K	0.466	0.59
PIP3016-180T	18	M,K	0.515	0.54
PIP3016-220T	22	M,K	0.656	0.48
PIP3016-270T	27	M,K	0.774	0.43
PIP3016-330T	33	M,K	1.021	0.37
PIP3016-390T	39	M,K	1.122	0.32
PIP3016-470T	47	M,K	1.509	0.26
PIP3016-560T	56	M,K	1.675	0.24
PIP3016-680T	68	M,K	1.919	0.23
PIP3016-820T	82	M,K	2.644	0.21
PIP3016-101T	100	M,K	2.870	0.19
PIP3016-121T	120	M,K	4.084	0.17
PIP3016-151T	150	M,K	4.774	0.16
PIP3016-181T	180	M,K	5.699	0.14
PIP3016-221T	220	M,K	9.000	0.12
PIP3016-102T	1000	M,K	34.000	0.07
PIP3016-122T	1200	M,K	35.000	0.057

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP3020-R10T	0.1	Y	0.020	4.50
PIP3020-R50T	0.5	Y	0.020	4.20
PIP3020-1R0T	1.0	M	0.035	3.34
PIP3020-1R2T	1.2	M	0.044	3.10
PIP3020-1R4T	1.4	M	0.045	3.01
PIP3020-1R5T	1.5	M	0.045	3.01
PIP3020-1R8T	1.8	M	0.054	2.68
PIP3020-2R2T	2.2	M	0.059	2.35
PIP3020-2R7T	2.7	M	0.077	2.01
PIP3020-3R3T	3.3	M	0.098	1.83
PIP3020-3R9T	3.9	M	0.117	1.64
PIP3020-4R7T	4.7	M	0.137	1.50
PIP3020-5R6T	5.6	M	0.157	1.36
PIP3020-6R8T	6.8	M	0.196	1.22
PIP3020-8R2T	8.2	M	0.230	1.09
PIP3020-100T	10	M,K	0.286	0.95
PIP3020-120T	12	M,K	0.322	0.88
PIP3020-150T	15	M,K	0.398	0.82
PIP3020-180T	18	M,K	0.520	0.76
PIP3020-220T	22	M,K	0.660	0.63
PIP3020-270T	27	M,K	0.760	0.62
PIP3020-330T	33	M,K	0.870	0.56
PIP3020-390T	39	M,K	1.100	0.51
PIP3020-470T	47	M,K	1.250	0.47
PIP3020-560T	56	M,K	1.590	0.42
PIP3020-680T	68	M,K	1.820	0.38
PIP3020-820T	82	M,K	2.440	0.34
PIP3020-101T	100	M,K	2.840	0.31
PIP3020-121T	120	M,K	3.190	0.28
PIP3020-151T	150	M,K	4.200	0.16
PIP3020-181T	180	M,K	5.110	0.15
PIP3020-221T	220	M,K	7.310	0.14
PIP3020-271T	270	M,K	8.240	0.12
PIP3020-331T	330	M,K	10.190	0.10

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP4032-R50T	0.5	Y	0.011	5.50
PIP4032-1R0T	1.0	M	0.033	3.80
PIP4032-1R2T	1.2	M	0.035	3.60
PIP4032-1R5T	1.5	M	0.039	3.20
PIP4032-1R8T	1.8	M	0.042	2.91
PIP4032-2R2T	2.2	M	0.047	2.60
PIP4032-2R7T	2.7	M	0.052	2.43
PIP4032-3R3T	3.3	M	0.058	2.15
PIP4032-3R9T	3.9	M	0.076	1.98
PIP4032-4R7T	4.7	M	0.094	1.70
PIP4032-5R6T	5.6	M	0.101	1.60
PIP4032-6R8T	6.8	M	0.117	1.41
PIP4032-8R2T	8.2	M	0.132	1.26
PIP4032-100T	10	M,K	0.182	1.15
PIP4032-120T	12	M,K	0.210	1.05
PIP4032-150T	15	M,K	0.235	0.92
PIP4032-180T	18	M,K	0.338	0.84
PIP4032-220T	22	M,K	0.378	0.76
PIP4032-270T	27	M,K	0.522	0.71
PIP4032-330T	33	M,K	0.540	0.64
PIP4032-390T	39	M,K	0.587	0.59
PIP4032-470T	47	M,K	0.844	0.54
PIP4032-560T	56	M,K	0.937	0.50
PIP4032-680T	68	M,K	1.117	0.46
PIP4032-820T	82	M,K	1.180	0.43
PIP4032-101T	100	M,K	1.190	0.41
PIP4032-121T	120	M,K	1.220	0.38
PIP4032-151T	150	M,K	1.400	0.35
PIP4032-181T	180	M,K	1.850	0.31
PIP4032-221T	220	M,K	2.156	0.29
PIP4032-271T	270	M,K	2.890	0.26
PIP4032-331T	330	M,K	3.760	0.20
PIP4032-391T	390	M,K	5.500	0.17
PIP4032-471T	470	M,K	7.200	0.15
PIP4032-102T	1000	M,K	11.500	0.08

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP5025-R82T	0.82	Y	0.040	5.00
PIP5025-1R0T	1.0	M	0.050	4.20
PIP5025-1R2T	1.2	M	0.060	4.00
PIP5025-1R5T	1.5	M	0.060	3.70
PIP5025-1R8T	1.8	M	0.070	3.50
PIP5025-2R2T	2.2	M	0.080	3.20
PIP5025-2R7T	2.7	M	0.100	2.70
PIP5025-3R3T	3.3	M	0.120	2.40
PIP5025-3R9T	3.9	M	0.140	2.00
PIP5025-4R7T	4.7	M	0.150	1.80
PIP5025-5R6T	5.6	M	0.160	1.50
PIP5025-6R8T	6.8	M	0.170	1.40
PIP5025-8R2T	8.2	M	0.200	1.30
PIP5025-100T	10	M,K	0.230	1.10
PIP5025-120T	12	M,K	0.250	1.05
PIP5025-150T	15	M,K	0.300	1.00
PIP5025-180T	18	M,K	0.350	0.90
PIP5025-220T	22	M,K	0.400	0.85
PIP5025-270T	27	M,K	0.500	0.75
PIP5025-330T	33	M,K	0.550	0.70
PIP5025-390T	39	M,K	0.650	0.60
PIP5025-470T	47	M,K	0.750	0.55
PIP5025-560T	56	M,K	0.950	0.50
PIP5025-680T	68	M,K	1.200	0.45
PIP5025-820T	82	M,K	1.400	0.40
PIP5025-101T	100	M,K	1.750	0.35
PIP5025-121T	120	M,K	2.000	0.25
PIP5025-151T	150	M,K	2.600	0.22
PIP5025-181T	180	M,K	3.000	0.20
PIP5025-221T	220	M,K	3.700	0.18
PIP5025-271T	270	M,K	4.000	0.19
PIP5025-331T	330	M,K	4.200	0.20

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP5035-1R0T	1.0	M	0.030	4.50
PIP5035-1R2T	1.2	M	0.030	4.20
PIP5035-1R5T	1.5	M	0.030	4.10
PIP5035-1R8T	1.8	M	0.030	3.70
PIP5035-2R2T	2.2	M	0.030	3.50
PIP5035-2R7T	2.7	M	0.040	3.20
PIP5035-3R3T	3.3	M	0.050	2.80
PIP5035-3R9T	3.9	M	0.060	2.60
PIP5035-4R7T	4.7	M	0.070	2.50
PIP5035-5R6T	5.6	M	0.080	2.40
PIP5035-6R8T	6.8	M	0.090	2.20
PIP5035-8R2T	8.2	M	0.100	2.00
PIP5035-100T	10	M,K	0.120	1.80
PIP5035-120T	12	M,K	0.130	1.75
PIP5035-150T	15	M,K	0.150	1.70
PIP5035-180T	18	M,K	0.180	1.60
PIP5035-220T	22	M,K	0.220	1.50
PIP5035-270T	27	M,K	0.240	1.40
PIP5035-330T	33	M,K	0.300	1.10
PIP5035-390T	39	M,K	0.400	1.00
PIP5035-470T	47	M,K	0.430	0.90
PIP5035-560T	56	M,K	0.500	0.85
PIP5035-680T	68	M,K	0.600	0.80
PIP5035-820T	82	M,K	0.800	0.65
PIP5035-101T	100	M,K	0.900	0.60
PIP5035-121T	120	M,K	1.000	0.58
PIP5035-151T	150	M,K	1.300	0.43
PIP5035-181T	180	M,K	1.500	0.41
PIP5035-221T	220	M,K	2.000	0.38
PIP5035-271T	270	M,K	2.500	0.35
PIP5035-331T	330	M,K	3.200	0.28
PIP5035-471T	470	M,K	4.200	0.25
PIP5035-561T	560	M,K	4.500	0.25
PIP5035-102T	1000	M,K	6.950	0.220
PIP5035-202T	2000	M,K	17.500	0.150
PIP5035-302T	3000	M,K	27.140	0.120

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP5045-R50T	0.5	Y	7.15m	9.5
PIP5045-1R0T	1.0	M	0.020	5.00
PIP5045-1R5T	1.5	M	0.025	5.00
PIP5045-1R8T	1.8	M	0.025	5.00
PIP5045-2R2T	2.2	M	0.027	4.50
PIP5045-2R7T	2.7	M	0.030	3.50
PIP5045-3R3T	3.3	M	0.034	3.00
PIP5045-3R6T	3.6	M	0.036	3.00
PIP5045-4R7T	4.7	M	0.040	3.00
PIP5045-6R8T	6.8	M	0.080	2.50
PIP5045-8R2T	8.2	M	0.068	2.40
PIP5045-100T	10	M,K	0.100	1.44
PIP5045-120T	12	M,K	0.120	1.40
PIP5045-150T	15	M,K	0.140	1.30
PIP5045-180T	18	M,K	0.150	1.23
PIP5045-220T	22	M,K	0.180	1.11
PIP5045-270T	27	M,K	0.200	0.97
PIP5045-330T	33	M,K	0.230	0.88
PIP5045-390T	39	M,K	0.320	0.80
PIP5045-470T	47	M,K	0.370	0.72
PIP5045-560T	56	M,K	0.420	0.68
PIP5045-680T	68	M,K	0.460	0.61
PIP5045-820T	82	M,K	0.600	0.58
PIP5045-101T	100	M,K	0.700	0.52
PIP5045-121T	120	M,K	0.930	0.48
PIP5045-151T	150	M,K	1.100	0.40
PIP5045-181T	180	M,K	1.380	0.38
PIP5045-221T	220	M,K	1.570	0.35
PIP5045-331T	330	M,K	2.200	0.30
PIP5045-471T	470	M,K	2.800	0.23
PIP5045-561T	560	M,K	3.000	0.20
PIP5045-681T	680	M,K	3.500	0.18
PIP5045-102T	1000	M,K	6.240	0.15

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP7035-1R0T	1.0	M	0.018	7.00
PIP7035-1R5T	1.5	M	0.020	6.00
PIP7035-2R2T	2.2	M	0.023	5.00
PIP7035-3R3T	3.3	M	0.025	4.00
PIP7035-4R7T	4.7	M	0.039	3.50
PIP7035-6R8T	6.8	M	0.040	2.80
PIP7035-100T	10	M,K	0.080	1.44
PIP7035-120T	12	M,K	0.090	1.39
PIP7035-150T	15	M,K	0.100	1.24
PIP7035-180T	18	M,K	0.110	1.12
PIP7035-220T	22	M,K	0.130	1.07
PIP7035-270T	27	M,K	0.150	0.94
PIP7035-330T	33	M,K	0.170	0.85
PIP7035-390T	39	M,K	0.220	0.74
PIP7035-470T	47	M,K	0.250	0.68
PIP7035-560T	56	M,K	0.280	0.64
PIP7035-680T	68	M,K	0.330	0.59
PIP7035-820T	82	M,K	0.410	0.54
PIP7035-101T	100	M,K	0.480	0.51
PIP7035-121T	120	M,K	0.540	0.49
PIP7035-151T	150	M,K	0.750	0.40
PIP7035-181T	180	M,K	1.020	0.36
PIP7035-221T	220	M,K	1.200	0.31
PIP7035-271T	270	M,K	1.310	0.29
PIP7035-331T	330	M,K	1.500	0.28

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP7050-1R0T	1.0	M	0.013	7.50
PIP7050-1R2T	1.2	M	0.015	7.20
PIP7050-1R5T	1.5	M	0.016	6.50
PIP7050-1R8T	1.8	M	0.020	6.00
PIP7050-2R2T	2.2	M	0.023	5.30
PIP7050-3R3T	3.3	M	0.028	4.50
PIP7050-3R9T	3.9	M	0.030	4.20
PIP7050-4R7T	4.7	M	0.045	4.00
PIP7050-5R6T	5.6	M	0.048	3.60
PIP7050-6R8T	6.8	M	0.058	3.20
PIP7050-8R2T	8.2	M	0.070	2.80
PIP7050-100T	10	M,K	0.070	2.30
PIP7050-120T	12	M,K	0.080	2.00
PIP7050-150T	15	M,K	0.090	1.80
PIP7050-180T	18	M,K	0.100	1.60
PIP7050-220T	22	M,K	0.110	1.50
PIP7050-270T	27	M,K	0.120	1.30
PIP7050-330T	33	M,K	0.130	1.20
PIP7050-390T	39	M,K	0.160	1.10
PIP7050-470T	47	M,K	0.180	1.10
PIP7050-560T	56	M,K	0.240	0.94
PIP7050-680T	68	M,K	0.280	0.85
PIP7050-820T	82	M,K	0.370	0.78
PIP7050-101T	100	M,K	0.430	0.72
PIP7050-121T	120	M,K	0.470	0.66
PIP7050-151T	150	M,K	0.640	0.58
PIP7050-181T	180	M,K	0.710	0.51
PIP7050-221T	220	M,K	0.960	0.49
PIP7050-271T	270	M,K	1.110	0.42
PIP7050-331T	330	M,K	1.260	0.40
PIP7050-391T	390	M,K	1.770	0.36
PIP7050-471T	470	M,K	1.960	0.34
PIP7050-681T	680	M,K	2.480	0.30
PIP7050-821T	820	M,K	3.400	0.30
PIP7050-102T	1000	M,K	5.000	0.17
PIP7050-122T	1200	M,K	5.000	0.17
PIP7050-152T	1500	M,K	5.520	0.16
PIP7050-182T	1800	M,K	6.050	0.15
PIP7050-202T	2000	M,K	7.280	0.14
PIP7050-252T	2500	M,K	9.680	0.11
PIP7050-302T	3000	M,K	13.200	0.10
PIP7050-532T	5300	M,K	24.000	0.08

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP10040-1R0T	1.0	M	0.012	8.70
PIP10040-1R2T	1.2	M	0.014	8.00
PIP10040-1R4T	1.4	M	0.016	7.48
PIP10040-1R5T	1.5	M	0.016	7.48
PIP10040-1R8T	1.8	M	0.018	6.80
PIP10040-2R2T	2.2	M	0.020	5.40
PIP10040-2R7T	2.7	M	0.024	3.20
PIP10040-3R3T	3.3	M	0.028	2.85
PIP10040-3R9T	3.9	M	0.030	2.80
PIP10040-4R7T	4.7	M	0.038	2.75
PIP10040-5R6T	5.6	M	0.040	2.70
PIP10040-6R8T	6.8	M	0.042	2.65
PIP10040-8R2T	8.2	M	0.048	2.60
PIP10040-100T	10	M,K	0.050	2.38
PIP10040-120T	12	M,K	0.060	2.13
PIP10040-150T	15	M,K	0.070	1.87
PIP10040-180T	18	M,K	0.080	0.73
PIP10040-220T	22	M,K	0.090	1.60
PIP10040-270T	27	M,K	0.100	1.44
PIP10040-330T	33	M,K	0.120	1.26
PIP10040-390T	39	M,K	0.150	1.20
PIP10040-470T	47	M,K	0.170	1.10
PIP10040-560T	56	M,K	0.200	1.01
PIP10040-680T	68	M,K	0.220	0.91
PIP10040-820T	82	M,K	0.250	0.85
PIP10040-101T	100	M,K	0.340	0.74
PIP10040-121T	120	M,K	0.400	0.69
PIP10040-151T	150	M,K	0.540	0.61
PIP10040-181T	180	M,K	0.620	0.56
PIP10040-221T	220	M,K	0.720	0.53
PIP10040-271T	270	M,K	0.950	0.45
PIP10040-331T	330	M,K	1.100	0.42
PIP10040-391T	390	M,K	1.240	0.38
PIP10040-471T	470	M,K	1.530	0.35
PIP10040-561T	560	M,K	1.900	0.15

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP10050-1R2T	1.2	M	0.009	8.63
PIP10050-1R5T	1.5	M	0.012	8.00
PIP10050-2R2T	2.2	M	0.016	7.20
PIP10050-3R3T	3.3	M	0.018	6.50
PIP10050-4R7T	4.7	M	0.020	5.50
PIP10050-6R8T	6.8	M	0.040	4.50
PIP10050-100T	10	M,K	0.060	2.60
PIP10050-120T	12	M,K	0.070	1.94
PIP10050-150T	15	M,K	0.070	1.72
PIP10050-180T	18	M,K	0.080	1.58
PIP10050-220T	22	M,K	0.080	1.42
PIP10050-270T	27	M,K	0.100	1.32
PIP10050-330T	33	M,K	0.110	1.16
PIP10050-390T	39	M,K	0.120	1.10
PIP10050-470T	47	M,K	0.140	1.00
PIP10050-560T	56	M,K	0.190	0.93
PIP10050-680T	68	M,K	0.210	0.85
PIP10050-820T	82	M,K	0.280	0.79
PIP10050-101T	100	M,K	0.340	0.72
PIP10050-121T	120	M,K	0.370	0.63
PIP10050-151T	150	M,K	0.510	0.55
PIP10050-181T	180	M,K	0.570	0.50
PIP10050-221T	220	M,K	0.780	0.47
PIP10050-271T	270	M,K	0.870	0.41
PIP10050-331T	330	M,K	1.200	0.37
PIP10050-390T	390	M,K	1.340	0.35
PIP10050-470T	470	M,K	1.500	0.33
PIP10050-561T	560	M,K	1.900	0.33
PIP10050-681T	680	M,K	2.250	0.28
PIP10050-821T	820	M,K	2.550	0.24
PIP10050-103T	10000	M,K	31.000	0.15

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

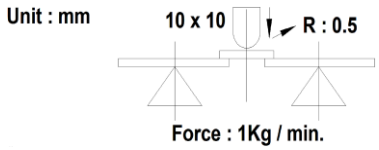
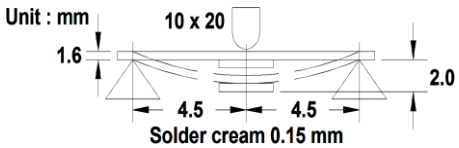
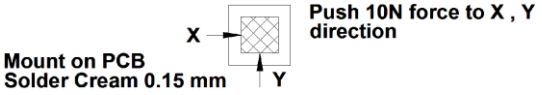
Part Number	Inductance (uH)	Tolerance (T)	DCR (ohm) (Max.)	D.C. Current (Amp) (Max.)
PIP10070-1R0T	1.0	M	0.008	9.50
PIP10070-1R8T	1.8	M	0.011	8.60
PIP10070-2R2T	2.2	M	0.012	8.00
PIP10070-3R3T	3.3	M	0.016	6.80
PIP10070-3R9T	3.9	M	0.017	6.35
PIP10070-4R7T	4.7	M	0.019	5.45
PIP10070-5R6T	5.6	M	0.024	4.30
PIP10070-6R8T	6.8	M	0.035	3.52
PIP10070-8R2T	8.2	M	0.045	3.51
PIP10070-100T	10	M,K	0.060	3.50
PIP10070-120T	12	M,K	0.070	3.40
PIP10070-150T	15	M,K	0.080	3.10
PIP10070-180T	18	M,K	0.090	3.00
PIP10070-220T	22	M,K	0.100	2.60
PIP10070-270T	27	M,K	0.110	2.40
PIP10070-330T	33	M,K	0.120	2.30
PIP10070-390T	39	M,K	0.140	2.10
PIP10070-470T	47	M,K	0.170	1.95
PIP10070-560T	56	M,K	0.190	1.85
PIP10070-680T	68	M,K	0.220	1.65
PIP10070-820T	82	M,K	0.250	1.50
PIP10070-101T	100	M,K	0.350	1.40
PIP10070-121T	120	M,K	0.400	1.30
PIP10070-151T	150	M,K	0.470	1.20
PIP10070-181T	180	M,K	0.630	1.00
PIP10070-221T	220	M,K	0.730	0.95
PIP10070-271T	270	M,K	0.970	0.90
PIP10070-331T	330	M,K	1.150	0.80
PIP10070-391T	390	M,K	1.300	0.75
PIP10070-471T	470	M,K	1.480	0.65
PIP10070-531T	530	M,K	1.700	0.62
PIP10070-561T	560	M,K	1.900	0.60
PIP10070-681T	680	M,K	2.250	0.50
PIP10070-821T	820	M,K	2.550	0.48
PIP10070-102T	1000	M,K	3.000	0.46
PIP10070-122T	1200	M,K	3.500	0.35
PIP10070-153T	15000	M,K	41.000	0.12

* Measuring Freq.: 100KHz, 0.25V / Test Instrument: HP4284A

* T= Tolerance: Y= ±30%, M= ±20%, K= ±10%

* D.C. Current: Base on L drop 10% Max. & Temp. rise up 40℃ Max.

• RELIABILITY

Test Item	Test Condition	Specification
Dimension	Actual Size ...	Meet Spec
Thermal Shock (Temperature Cycle)	Temperature: -40 ~ +125℃ kept stabilized for 30 min. each Cycle: 100 Cycles (power off)	Elec. no variation Appearance no deformation
Humidity Resistance	Humidity: 90% ~ 95% RH Temperature: 60 ± 2℃ Test Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation
High Temperature	Temperature: 125 ± 2℃ Testing Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation
Low Temperature	Temperature: -40 ± 2℃ Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation
Temperature and Humidity Cycle	Temperature / Humidity / Time 25℃ / 90% ~ 95% RH / 3.0 Hr 55℃ / 95% ~ 96% RH / 5.0 Hr 25℃ / 90% ~ 95% RH / 3.0 Hr Cycle: 20 Cycles	Elec. no variation Appearance no deformation
Vibration	Frequency: 10Hz ~ 55Hz , Amplitude: 1.5 mm Direction: X, Y, Z, Time: 2 Hours each	Elec. no variation Appearance no deformation
Solderability	Go through real SMT IR-Reflow .... The profile like our suggest profile. Preheat: 160 ± 10℃ (90 sec) Peak: 245 ± 5℃ Peak Time: 50 Sec. / up 217℃	Elec. no variation Appearance no deformation
Soldering Heat Resistance	Preheat: 160 ± 10℃ (90 sec) Solder: Sn / Ag / Cu (Pb Free) Solder Temp.: 260 ± 5℃, Time: 3 ± 1 seconds	Elec. no variation Appearance no deformation
Iron Solder Heat Resistance	Solder Temp.: 350 ± 5℃ Flux: Rosin, Time: 3 ± 1 seconds	Elec. no variation Appearance no deformation
Bending Strength		Elec. no variation Appearance no deformation
Flexure Strength		Elec. no variation Appearance no deformation
Terminal Strength		Elec. no variation Appearance no deformation
High-Voltage	100 V DC between core & winding	Elec. no variation Appearance no deformation
Load life	Temperature: 25 ± 3℃ Load: Allowed DC Current, Test Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation

•TEST EQUIPMENT

1. HP4284A, HP42841A - L, Q, DCR, IDC
2. HP8753D Network analyzer – SRF

•OPERATING & STORAGE CONDITION

1. Operating Temp: -40 ~ +125℃ (Including self - temperature rise)
2. Storage Temp: a. Product with Taping: -10 ~ 45℃, 50 ~ 60% RH
   b. On Board: -40 ~ +125℃
3. Storage Life Time: 12 Month (Less than 40℃ and 60% RH)

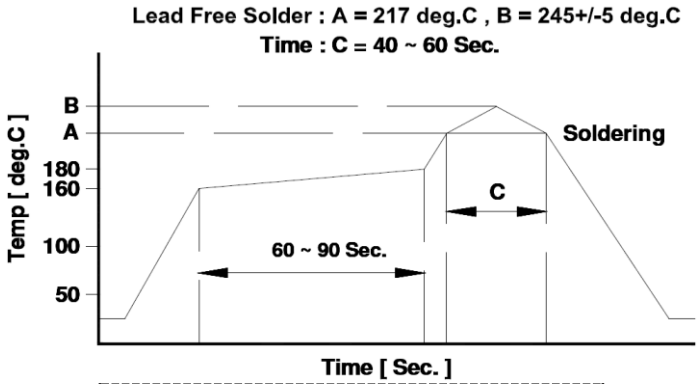
Standard Atmosphere Conditions:

Ambient Temperature 20 ± 15℃; Humidity RH 65 ± 20%

If there may be any doubt on the test result, Measurement shall be made within the following limits:

Ambient Temperature 25 ± 5℃; Humidity RH 75 ± 10%

•RECOMMEND REFLOW CURVE (TIME: Second)



Notice: Iron Soldering, Solder < 30 Watt,
Direct touch the terminal x 3 Sec. Max. @ 350℃

•ATTENTION & CAUTION:

* Keep out of Splashing water or salt water
* Avoid Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
* Vibrations or shocks which exceed the specified condition
* Dew condense
* Layout near the edge of PCB
* Over flexure after SMT mounting & PCBA
* Pin foot or SMD pad solder ability: Pb free type is best within 6 months after delivery
* Humidity sensitive, IPC/JEDEC J-STD-020 MSL if over Level 1, recommend bake 30mins@150℃ before PCBA
* Caution for human life relative applications: PLS contact & consult with AiT team in design stage.

Care Note for Use:

(1) Storage Condition:
Temperature 25 to 35℃, Humidity 45 to 60% RH

(2) Use Temperature:
a. Minimum Temperature: -40℃ Ambient temperature of this product.
b. Maximum Temperature: +125℃ The value of temperature including ambient and temperature rise of this product.
c. Reliability test temperature range from -40 ~ +125℃
d. However, this is not meant as temperature grade guarantee for UL.

(3) Model:
When this product was used in a similar or as new product to the original one, sometimes it might be unable to satisfy the specifications due to difference in condition of usage.

(4) Drop:
If this product suffered mechanical stress such as drop, characteristics may become poor (due to damage on coil / bobbin / ferrite … etc.)
Never use such stressed product.

Care Note for Safety:

(1) Provision to Abnormal Condition:
This product itself does not have any protective function in abnormal condition such as overload, short-circuit and open-circuit conditions, etc.
TheRefore, it shall be confirmed from the end product that there is no risk of smoking, fire, dielectric withstand voltage insulation resistance, etc. in abnormal conditions to provide protective devices and /or protection circuit in the end product.

(2) Temperature Rise:
Temperature rise on this product depends on the installation condition on end products.
It shall be confirmed on the actual end product that temperature rise of this product is within the specified temperature class limit.

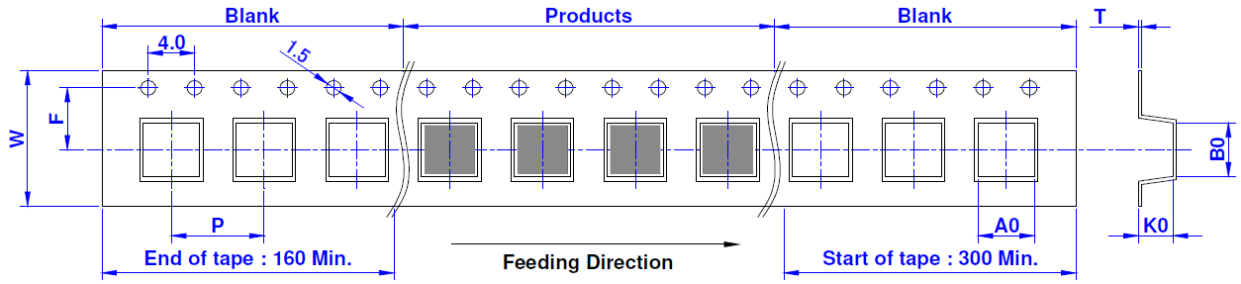
(3) Dielectric Strength:
Dielectric withstanding test with higher voltage than specific value will damage insulating material and shorten its life.

(4) Water:
This product must not be used in wet condition resulted from water, coffee or any liquid contact because insulation strength becomes very low under such condition.

(5) Potting:
If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.

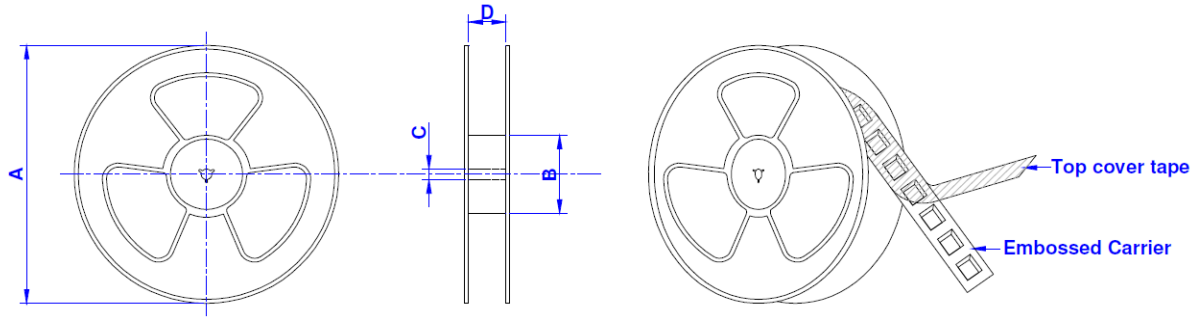
(6) Detergent:
Please consult AiT Semi immediately once under such circumstances because product reliability confirmation etc. is needed when this product come in contact with these chemicals.

•TAPE DIMENSION: mm



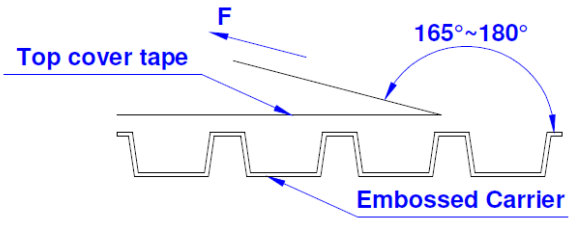
SIZE/mm	W	P	A0	B0	K0	T	F
3015	12.00	8.00	3.20	3.80	1.80	0.25	5.50
3016	12.00	8.00	3.20	3.80	1.60	0.25	5.50
3020	12.00	8.00	3.53	3.94	2.40	0.25	5.50
4032	12.00	8.00	4.40	5.05	3.60	0.30	5.80
5025	12.00	8.00	5.50	6.10	2.80	0.30	5.80
5035	12.00	8.00	5.50	6.10	3.50	0.30	5.80
5045	12.00	8.00	5.50	6.10	5.00	0.30	5.80
7035	16.00	12.00	7.20	8.00	3.80	0.30	7.70
7050	16.00	12.00	7.20	8.10	5.50	0.40	7.70
10040	24.00	16.00	9.40	10.40	4.50	0.40	11.20
10050	24.00	16.00	9.50	10.40	5.80	0.40	11.20
10070	24.00	16.00	9.50	10.40	8.90	0.40	11.20

•REEL DIMENSION: mm



SIZE / mm	REEL SIZE	A	B	C	D	QTY/REEL
3015	13” x 12 mm	330	21 ± 0.8	18.4	12.4	3000 PCS
3016	13” x 12 mm	330	21 ± 0.8	18.4	12.4	3000 PCS
3020	13" x 12 mm	330	21 ± 0.8	16.5	12.4	2500 PCS
4032	13" x 12 mm	330	21 ± 0.8	16.5	14	2000 PCS
5025	13" x 12 mm	330	21 ± 0.8	18.4	14	2000 PCS
5035	13" x 12 mm	330	21 ± 0.8	18.4	14	2000 PCS
5045	13" x 12 mm	330	21 ± 0.8	18.4	14	1500 PCS
7035	13" x 16 mm	330	21 ± 0.8	22.4	18	1500 PCS
7050	13" x 16 mm	330	21 ± 0.8	22.4	18	1000 PCS
10040	13" x 24 mm	330	21 ± 0.8	26.4	22	1000 PCS
10050	13" x 24 mm	330	21 ± 0.8	26.4	22	750 PCS
10070	13" x 24 mm	330	21 ± 0.8	31.1	24.5	500 PCS

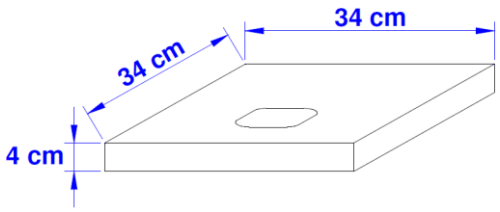
•TEARING OFF FORCE :



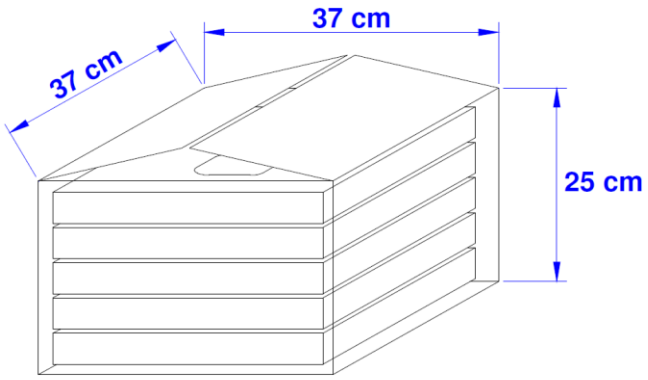
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (Referenced ANSI/EIA - 481 - D - 2008 of 4.11stadnard).

Room Temp. (℃)	Room Humidity (%)	Room Atm. (hPa)	Tearing Speed (mm / min)
5 ~ 35	45 ~ 85	860~1060	300

●BOX PACKAGE: cm



13" Small Box



Large Box

SIZE/mm	Reels in Small Box	Small Box in Large Box
3015	2	5
3016	2	5
3020	2	5
4032	2	5
5025	2	5
5035	2	5
5045	2	5
7035	1	5
7050	1	5
10040	1	5
10050	1	5
10070	1	5

IMPORTANT NOTICE

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