



●FEATURE

1. Power supply PWM circuit input / output inductor
2. Power line noise suppression
3. DC-DC Converter
4. Pass CE/FCC purpose
5. Operating Temperature: -40~+125 °C
6. Compliant with AEC-Q200



●APPLICATION

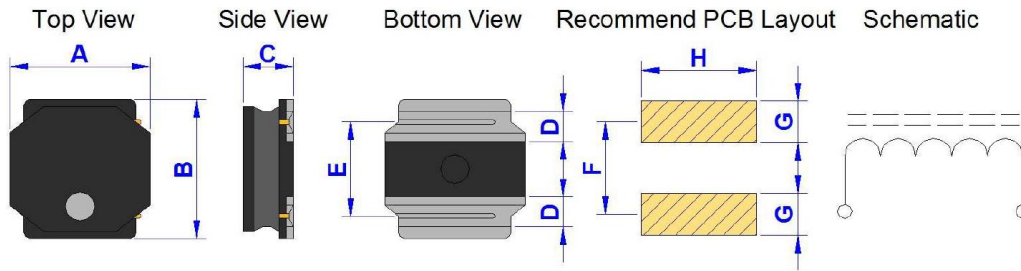
TFT, WIFI, Mobile Phone, MP3, PDA, Low Profile For All
Compact Design

●ORDERING INFORMATION

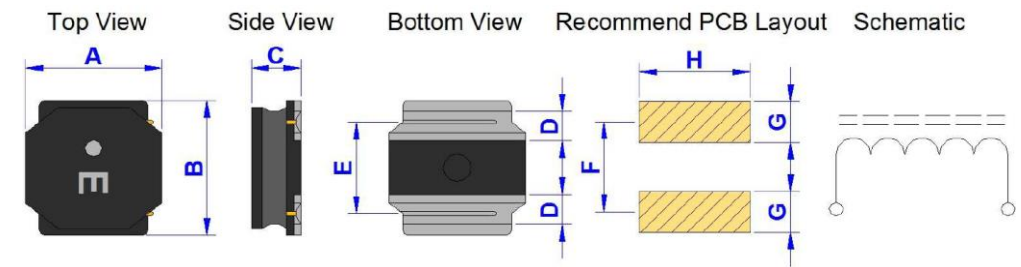
<u>PIT</u>	<u>201612</u>	<u>U</u>	<u>-R24</u>	<u>T</u>	<u>Q</u>
Series	Dimension	Material code	Impedance	Tolerance	AEC-Q
	(L*W*H)	(A, B, H)	(Ω)	M=±20%,Y=±30%	

●SHAPE AND DIMENSION

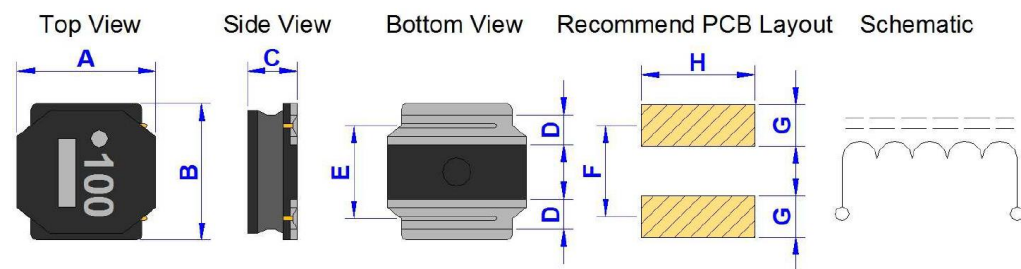
Top View	Side View	Bottom View	Recommend PCB Layout	Schematic	PIT201610 PIT201610H PIT201612 PIT252010 PIT252010B PIT252010H PIT252012 PIT252012H
Top View	Side View	Bottom View	Recommend PCB Layout	Schematic	PIT2012B PIT3015



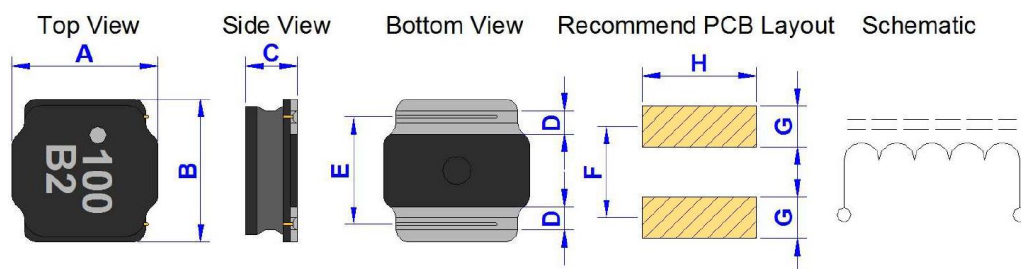
PIT2410A
PIT2412A
PIT3010A
PIT3012A



PIT4010B
PIT4012B
PIT4018B



PIT5012B
PIT5020B
PIT5040B
PIT6010B
PIT6012B
PIT6020B
PIT6028B
PIT6045B



PIT8030B
PIT8040B



●SPECIFICATION

Unit: mm

TYPE	A	B	C	D	E	F	G	H
201610	1.60+0.3/-0.1	2.00+0.3/-0.1	1.02 Max.	0.60 Ref.	0.8 Ref.	1.60 Ref.	0.80 Ref.	1.80 Ref.
201610H	1.60+0.2/-0.1	2.00+0.2/-0.1	1.00 Max.	0.50 Ref.	1.00 Ref.	1.60 Ref.	0.75 Ref.	1.90 Ref.
201612	1.60+0.3/-0.1	2.00+0.3/-0.1	1.20 Max.	0.60 Ref.	0.80 Ref.	1.60 Ref.	0.80 Ref.	1.80 Ref.
2012B	2.00±0.10	2.00±0.10	1.20 Max.	0.50±0.20	1.25±0.20	1.35 Ref.	0.65 Ref.	2.00 Ref.
2410A	2.40±0.10	2.40±0.10	1.00 Max.	0.60±0.20	1.45±0.20	1.45 Ref.	0.70 Ref.	2.00 Ref.
2412A	2.40±0.10	2.40±0.10	1.20 Max.	0.60±0.20	1.45±0.20	1.45 Ref.	0.70 Ref.	2.00 Ref.
252010	2.00±0.20	2.50±0.20	1.00 Max.	0.85 Ref.	0.80 Ref.	1.75 Ref.	0.95 Ref.	2.20 Ref.
252010B	2.00+0.35/-0.05	2.50+0.3/-0.1	1.02 Max.	0.85 Ref.	0.80 Ref.	1.85 Ref.	1.05 Ref.	2.40 Ref.
252010H	2.00+0.2/-0.1	2.50+0.2/-0.1	1.00 Max.	0.75 Ref.	1.00 Ref.	1.95 Ref.	1.00 Ref.	2.40 Ref.
252012	2.00±0.2	2.50±0.2	1.20 Max.	0.85 Ref.	0.80 Ref.	1.75 Ref.	0.95 Ref.	2.20 Ref.
252012H	2.00+0.35/-0.05	2.50+0.3/-0.1	1.20 Max.	0.85 Ref.	0.80 Ref.	1.85 Ref.	1.05 Ref.	2.40 Ref.
3010A	3.00±0.10	3.00±0.10	1.00 Max.	0.90±0.20	1.90±0.20	2.20 Ref.	0.80 Ref.	2.70 Ref.
3012A	3.00±0.10	3.00±0.10	1.20 Max.	0.90±0.20	1.90±0.20	2.20 Ref.	0.80 Ref.	2.70 Ref.
3015	3.00±0.10	3.00±0.10	1.50 Max.	0.90±0.20	1.90±0.20	2.20 Ref.	0.80 Ref.	2.70 Ref.
4010B	4.00±0.20	4.00±0.20	1.00 Max.	1.10±0.20	2.50±0.20	2.80 Ref.	1.20 Ref.	3.70 Ref.
4012B	4.00±0.20	4.00±0.20	1.20 Max.	1.10±0.20	2.50±0.20	2.80 Ref.	1.20 Ref.	3.70 Ref.
4018B	4.00±0.20	4.00±0.20	1.80 Max.	1.10±0.20	2.50±0.20	2.80 Ref.	1.20 Ref.	3.70 Ref.
5012B	4.90±0.20	4.90±0.20	1.20 Max.	1.20±0.20	3.30±0.20	3.60 Ref.	1.50 Ref.	4.00 Ref.
5020B	4.90±0.20	4.90±0.20	2.00 Max.	1.20±0.20	3.30±0.20	3.60 Ref.	1.50 Ref.	4.00 Ref.
5040B	4.90±0.20	4.90±0.20	4.00 Max.	1.20±0.20	3.30±0.20	3.60 Ref.	1.50 Ref.	4.00 Ref.
6010B	6.00±0.20	6.00±0.20	1.00 Max.	1.35±0.20	4.00±0.20	4.70 Ref.	1.60 Ref.	5.70 Ref.
6012B	6.00±0.20	6.00±0.20	1.20 Max.	1.35±0.20	4.00±0.20	4.70 Ref.	1.60 Ref.	5.70 Ref.
6020B	6.00±0.20	6.00±0.20	2.00 Max.	1.35±0.20	4.00±0.20	4.70 Ref.	1.60 Ref.	5.70 Ref.
6028B	6.00±0.20	6.00±0.20	2.80 Max.	1.35±0.20	4.00±0.20	4.70 Ref.	1.60 Ref.	5.70 Ref.
6045B	6.00±0.20	6.00±0.20	4.50 Max.	1.35±0.20	4.00±0.20	4.70 Ref.	1.60 Ref.	5.70 Ref.
8030B	8.00±0.20	8.00±0.20	3.00 Max.	1.60±0.20	5.60±0.20	5.60 Ref.	1.80 Ref.	7.50 Ref.
8040B	8.00±0.20	8.00±0.20	4.00 Max.	1.60±0.20	5.60±0.20	5.60 Ref.	1.80 Ref.	7.50 Ref.

**●ELECTRICAL CHARACTERISTICS**

Part Number	Inductance (uH)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT201610-R24M	0.24	35.0	45.0	4400	3300
PIT201610-R47M	0.47	50.0	65.0	2800	2900
PIT201610-R56M	0.56	50.0	65.0	2800	2900
PIT201610-R68M	0.68	55.0	65.0	2600	2800
PIT201610-1R0M	1.00	90.0	108.0	2500	2300
PIT201610-2R2M	2.20	150.0	180.0	1450	1600

* Inductance test Freq.: 1MHz / 0.1V

* M=Tolerance= ±20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT201610H-R10M	0.10	13.0	18.0	7000	5500
PIT201610H-R24M	0.24	26.0	32.0	5900	4200
PIT201610H-R33M	0.33	32.0	38.0	5000	3700
PIT201610H-R47M	0.47	40.0	48.0	4300	3300
PIT201610H-R68M	0.68	55.0	65.0	3600	2900
PIT201610H-1R0M	1.00	70.0	85.0	2700	2450
PIT201610H-1R5M	1.50	100.0	120.0	2200	2200
PIT201610H-2R2M	2.20	135.0	165.0	1900	1850

* Inductance test Freq.: 1MHz / 0.1V

* M=Tolerance= ±20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT201612-R24M	0.24	25.00	33.00	4800	4000
PIT201612-R47M	0.47	35.00	46.00	3500	3300
PIT201612-1R0M	1.00	80.00	104.00	2500	2700
PIT201612-1R5M	1.50	90.00	108.00	2000	2100
PIT201612-2R2M	2.20	155.00	186.00	1600	1500

* Inductance test Freq.: 1MHz / 0.1V

* M=Tolerance= ±20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT2012B-1R0T	1.00	Y	70.0	84.0	1900	1700
PIT2012B-1R5T	1.50	Y	90.0	108.0	1650	1500
PIT2012B-2R2T	2.20	M	107.0	128.4	1350	1370
PIT2012B-3R3T	3.30	M	190.0	228.0	1000	1020
PIT2012B-4R7T	4.70	M	241.0	289.2	900	910

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y=±30%, M±20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT2410A-R68T	0.68	Y	60.0	72.0	2200	1570
PIT2410A-1R0T	1.00	Y	70.0	84.0	1800	1410
PIT2410A-1R5T	1.50	M	110.0	132.0	1550	1160
PIT2410A-2R2T	2.20	M	150.0	180.0	1290	970
PIT2410A-3R3T	3.30	M	220.0	264.0	1000	770
PIT2410A-4R7T	4.70	M	290.0	348.0	880	670
PIT2410A-6R8T	6.80	M	410.0	492.0	750	570
PIT2410A-100T	10.00	M	690.0	828.0	550	450
PIT2410A-150T	15.00	M	1020.0	1224.0	470	370
PIT2410A-220T	22.00	M	1470.0	1764.0	390	300

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y=±30%, M±20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT2412A-1R0T	1.00	Y	77.0	92.4	2350	1300
PIT2412A-1R5T	1.50	Y	100.0	120.0	2100	1150
PIT2412A-2R2T	2.20	M	140.0	168.0	1700	1000
PIT2412A-3R3T	3.30	M	225.0	270.0	1400	750
PIT2412A-4R7T	4.70	M	300.0	360.0	1150	650
PIT2412A-6R8T	6.80	M	420.0	504.0	950	550
PIT2412A-100T	10.00	M	600.0	720.0	810	450

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y=±30%, M±20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT252010-1R0T	1.00	Y	70.0	84.0	1750	2200
PIT252010-1R5T	1.50	Y	107.0	128.0	1500	1800
PIT252010-2R2T	2.20	M	158.0	190.0	1300	1650
PIT252010-3R3T	3.30	M	229.0	275.0	1000	1250
PIT252010-4R7T	4.70	M	332.0	398.0	850	1000
PIT252010-6R8T	6.80	M	443.0	532.0	750	850
PIT252010-100T	10.00	M	712.0	854.0	600	750

* Inductance test Freq.: 1MHz / 0.1V

* T=Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT252010B-R47T	0.47	Y	30.0	36.0	2570	2800
PIT252010B-R68T	0.68	Y	39.0	46.8	2450	2450
PIT252010B-1R0T	1.00	Y	55.0	66.0	2050	2200
PIT252010B-1R5T	1.50	Y	90.0	108.0	1700	1700
PIT252010B-2R2T	2.20	M	114.0	136.8	1550	1550
PIT252010B-3R3T	3.30	M	170.0	204.0	1100	1250
PIT252010B-4R7T	4.70	M	250.0	300.0	950	1050
PIT252010B-6R8T	6.80	M	370.0	444.0	800	850
PIT252010B-100T	10.00	M	470.0	564.0	650	750
PIT252010B-150T	15.00	M	750.0	900.0	450	550
PIT252010B-220T	22.00	M	1120.0	1344.0	400	500

* Inductance test Freq.: 1MHz / 0.1V

* T=Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT252010H-R24M	0.24	24.0	32.0	6700	4700
PIT252010H-R33M	0.33	25.0	33.0	5150	4500
PIT252010H-R47M	0.47	30.0	38.0	4900	3800
PIT252010H-R68M	0.68	42.0	52.0	3600	3400
PIT252010H-1R0M	1.00	50.0	62.0	3000	3100
PIT252010H-1R5M	1.50	80.0	96.0	2700	2400
PIT252010H-2R2M	2.20	110.0	132.0	2100	2100

* Inductance test Freq.: 1MHz / 0.1V

* M=Tolerance= $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT252012-1R0T	1.00	Y	73.0	88.0	2240	2200
PIT252012-1R5T	1.50	Y	100.0	120.0	1760	1860
PIT252012-2R2T	2.20	M	129.0	155.0	1440	1700
PIT252012-3R3T	3.30	M	22.0	264.0	1040	1200
PIT252012-4R7T	4.70	M	290.0	348.0	880	1040
PIT252012-6R8T	6.80	M	370.0	444.0	750	940
PIT252012-100T	10.00	M	570.0	684.0	650	840
PIT252012-150T	15.00	M	835.0	1002.0	600	500
PIT252012-220T	22.00	M	1200.0	1440.0	550	450

* Inductance test Freq.: 1MHz / 0.1V

* T=Tolerance: Y = ±30%, M = ±20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT252012H-R24M	0.24	21.0	27.0	6500	4700
PIT252012H-R47M	0.47	29.0	39.0	3800	3900
PIT252012H-R68M	0.68	42.0	55.0	3700	3500
PIT252012H-1R0M	1.00	47.0	62.0	3000	3000
PIT252012H-2R2M	2.20	98.0	117.0	2000	2200

* Inductance test Freq.: 1MHz / 0.1V

* M=Tolerance= ±20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT3010A-1R2T	1.20	Y	65.0	78.0	1700	1480
PIT3010A-1R5T	1.50	Y	75.0	90.0	1440	1370
PIT3010A-2R2T	2.20	M	83.0	99.6	1300	1300
PIT3010A-3R3T	3.30	M	130.0	156.0	1000	1030
PIT3010A-4R7T	4.70	M	170.0	204.0	850	900
PIT3010A-6R8T	6.80	M	250.0	300.0	700	745
PIT3010A-100T	10.00	M	350.0	420.0	600	620
PIT3010A-150T	15.00	M	550.0	660.0	450	480
PIT3010A-220T	22.00	M	770.0	924.0	380	410

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y=±30%, M±20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



Part Number	Inductance (μ H)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT3012A-1R0T	1.00	Y	48.0	57.6	2200	1710
PIT3012A-1R5T	1.50	Y	55.0	66.0	1700	1600
PIT3012A-2R2T	2.20	M	75.0	90.0	1500	1370
PIT3012A-3R3T	3.30	M	100.0	120.0	1200	1210
PIT3012A-4R7T	4.70	M	130.0	156.0	1000	1060
PIT3012A-6R8T	6.80	M	190.0	228.0	850	890
PIT3012A-100T	10.00	M	270.0	324.0	730	720
PIT3012A-150T	15.00	M	450.0	540.0	530	570
PIT3012A-220T	22.00	M	630.0	756.0	500	500

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = \pm 30%, M = \pm 20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (μ H)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT3015-1R0T	1.00	Y	30.0	36.0	2100	2100
PIT3015-1R5T	1.50	Y	40.0	48.0	1800	1820
PIT3015-2R2T	2.20	M	60.0	72.0	1480	1500
PIT3015-3R3T	3.30	M	80.0	96.0	1210	1230
PIT3015-4R7T	4.70	M	120.0	144.0	1020	1040
PIT3015-6R8T	6.80	M	160.0	192.0	870	880
PIT3015-100T	10.00	M	230.0	276.0	700	710
PIT3015-150T	15.00	M	360.0	432.0	560	560
PIT3015-220T	22.00	M	520.0	624.0	470	470

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = \pm 30%, M = \pm 20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.	Inductance Symbol
PIT4010B-1R0T	1.00	Y	56.0	67.2	2000	1900	A
PIT4010B-2R2T	2.20	M	85.0	102.0	1200	1500	C
PIT4010B-3R3T	3.30	M	100.0	120.0	1100	1400	E
PIT4010B-4R7T	4.70	M	140.0	168.0	950	1200	H
PIT4010B-6R8T	6.80	M	200.0	240.0	800	1000	I
PIT4010B-100T	10.00	M	300.0	360.0	620	750	K
PIT4010B-150T	15.00	M	430.0	516.0	540	600	M
PIT4010B-220T	22.00	M	570.0	684.0	450	500	N

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.	Inductance Symbol
PIT4012B-1R0T	1.00	Y	42.0	50.4	2800	2200	A
PIT4012B-2R2T	2.20	M	60.0	72.0	1650	1900	C
PIT4012B-3R3T	3.30	M	70.0	84.0	1400	1700	E
PIT4012B-4R7T	4.70	M	95.0	114.0	1200	1500	H
PIT4012B-6R8T	6.80	M	125.0	150.0	900	1300	I
PIT4012B-100T	10.00	M	170.0	204.0	800	1100	K
PIT4012B-150T	15.00	M	260.0	312.0	650	750	M
PIT4012B-220T	22.00	M	400.0	480.0	500	620	N

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



Part Number	Inductance (μ H)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.	Inductance Symbol
PIT4018B-1R0T	1.00	Y	27.0	32.4	4000	3200	A
PIT4018B-2R2T	2.20	M	42.0	50.4	3000	2200	C
PIT4018B-3R3T	3.30	M	55.0	66.0	2300	2000	E
PIT4018B-4R7T	4.70	M	70.0	84.0	2000	1700	H
PIT4018B-6R8T	6.80	M	98.0	117.6	1600	1450	I
PIT4018B-100T	10.00	M	150.0	180.0	1300	1200	K
PIT4018B-150T	15.00	M	210.0	252.0	1100	850	M
PIT4018B-220T	22.00	M	290.0	348.0	900	720	N
PIT4018B-330T	33.00	M	460.0	552.0	700	550	P

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = \pm 30%, M = \pm 20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (μ H)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT5012B-1R0T	1.00	Y	53.0	63.6	4500	2300
PIT5012B-1R5T	1.50	Y	70.0	84.0	3800	2200
PIT5012B-2R2T	2.20	M	85.0	102.0	3100	2000
PIT5012B-3R3T	3.30	M	160.0	192.0	2400	1450
PIT5012B-4R7T	4.70	M	180.0	216.0	2200	1400
PIT5012B-6R8T	6.80	M	260.0	312.0	1700	1100
PIT5012B-100T	10.00	M	420.0	504.0	1400	850
PIT5012B-150T	15.00	M	670.0	804.0	1200	640

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = \pm 30%, M = \pm 20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT5020B-1R0T	1.00	Y	21.0	25.2	4000	3600
PIT5020B-1R5T	1.50	Y	26.0	31.2	3350	3200
PIT5020B-2R2T	2.20	Y	35.0	42.0	2900	2900
PIT5020B-3R3T	3.30	Y	48.0	57.6	2400	2400
PIT5020B-4R7T	4.70	M	60.0	72.0	2000	2000
PIT5020B-6R8T	6.80	M	90.0	108.0	1600	1650
PIT5020B-100T	10.00	M	120.0	144.0	1300	1450
PIT5020B-150T	15.00	M	165.0	198.0	1100	1200
PIT5020B-220T	22.00	M	260.0	312.0	900	1000

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT5040B-1R5T	1.50	Y	17.0	20.4	6400	4500
PIT5040B-2R2T	2.20	Y	22.0	26.4	5000	3700
PIT5040B-3R3T	3.30	Y	27.0	32.4	4000	3300
PIT5040B-4R7T	4.70	Y	29.0	34.8	3300	3100
PIT5040B-6R8T	6.80	M	49.0	58.8	2800	2400
PIT5040B-100T	10.00	M	56.0	67.2	2300	2100
PIT5040B-150T	15.00	M	80.0	96.0	2000	1800
PIT5040B-220T	22.00	M	126.0	151.2	1500	1400

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT6010B-1R5T	1.50	90.0	108.0	2400	1900
PIT6010B-2R2T	2.20	110.0	132.0	1900	1700
PIT6010B-3R3T	3.30	135.0	162.0	1600	1500
PIT6010B-4R7T	4.70	165.0	198.0	1300	1400
PIT6010B-6R8T	6.80	220.0	264.0	1200	1200
PIT6010B-100T	10.00	270.0	324.0	1000	1100
PIT6010B-220T	22.00	580.0	696.0	650	700

* Inductance test Freq.: 100KHz / 0.1V

* M=Tolerance = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



Part Number	Inductance (μ H)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT6012B-2R5T	2.50	Y	90.0	108.0	2100	1800
PIT6012B-3R3T	3.30	Y	105.0	126.0	1800	1700
PIT6012B-4R7T	4.70	M	125.0	150.0	1600	1550
PIT6012B-5R3T	5.30	M	145.0	174.0	1500	1450
PIT6012B-6R8T	6.80	M	165.0	198.0	1300	1350
PIT6012B-100T	10.00	M	200.0	240.0	1000	1200
PIT6012B-150T	15.00	M	295.0	354.0	800	800
PIT6012B-220T	22.00	M	465.0	558.0	760	6500
PIT6012B-330T	33.00	M	580.0	696.0	590	550
PIT6012B-470T	47.00	M	965.0	1158.0	520	460
PIT6012B-680T	68.00	M	1160.0	1392.0	440	410
PIT6012B-101T	100.00	M	1670.0	2004.0	350	320

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = \pm 30%, M = \pm 20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (μ H)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT6020B-R80T	0.80	Y	20.0	24.0	6400	4100
PIT6020B-1R5T	1.50	Y	26.0	31.2	4300	3600
PIT6020B-2R2T	2.20	Y	34.0	40.8	3200	2900
PIT6020B-3R3T	3.30	Y	40.0	48.0	2800	2750
PIT6020B-4R7T	4.70	Y	58.0	69.6	2400	2150
PIT6020B-6R8T	6.80	Y	85.0	102.0	2000	1800
PIT6020B-100T	10.00	M	125.0	150.0	1900	1500
PIT6020B-220T	22.00	M	290.0	348.0	1250	950

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = \pm 30%, M = \pm 20%

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT6028B-R90T	0.90	Y	13.0	15.6	6700	4600
PIT6028B-1R5T	1.50	Y	16.0	19.2	5100	4200
PIT6028B-2R2T	2.20	Y	20.0	24.0	4200	3700
PIT6028B-3R0T	3.00	Y	23.0	27.6	3600	3400
PIT6028B-4R7T	4.70	M	31.0	37.2	2700	3000
PIT6028B-6R0T	6.00	M	40.0	48.0	2500	2500
PIT6028B-100T	10.00	M	65.0	78.0	1900	1900
PIT6028B-150T	15.00	M	95.0	114.0	1600	1800
PIT6028B-220T	22.00	M	135.0	162.0	1300	1400
PIT6028B-330T	33.00	M	220.0	264.0	1100	1100
PIT6028B-470T	47.00	M	300.0	360.0	1000	920
PIT6028B-680T	68.00	M	420.0	504.0	800	770
PIT6028B-101T	100.00	M	600.0	720.0	650	660

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT6045B-1R0T	1.00	Y	14.0	16.8	9800	4500
PIT6045B-1R3T	1.30	Y	16.0	19.2	8200	4200
PIT6045B-2R3T	2.30	Y	22.0	26.4	6400	3600
PIT6045B-3R0T	3.00	Y	24.0	28.8	5600	3300
PIT6045B-4R5T	4.50	M	30.0	36.0	4400	3100
PIT6045B-100T	10.00	M	46.0	55.2	3100	2400
PIT6045B-150T	15.00	M	70.0	84.0	2500	1900
PIT6045B-220T	22.00	M	107.0	128.4	2000	1600

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT8030B-1R0T	1.00	Y	9.0	10.8	7800	6200
PIT8030B-1R5T	1.50	Y	12.0	14.4	6200	5300
PIT8030B-2R2T	2.20	Y	15.0	18.0	4900	4800
PIT8030B-3R3T	3.30	M	19.0	22.8	4200	4300
PIT8030B-4R7T	4.70	M	22.0	26.4	3600	4000
PIT8030B-6R8T	6.80	M	29.0	34.8	3000	3400
PIT8030B-100T	10.00	M	33.0	39.6	3400	3000
PIT8030B-150T	15.00	M	60.0	72.0	2000	2200
PIT8030B-220T	22.00	M	70.0	84.0	1750	1900

* Inductance test Freq.: 100KHz / 0.1V

* T=Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)

Part Number	Inductance (uH)	Tolerance (T)	RDC (m Ohm) Typ.	RDC (m Ohm) Max.	Isat (mA) Typ.	Irms (mA) Typ.
PIT8040B-R90T	0.90	Y	6.0	7.2	13000	7800
PIT8040B-1R4T	1.40	Y	7.0	8.4	10000	7000
PIT8040B-2R0T	2.00	Y	9.0	10.8	8100	6300
PIT8040B-3R6T	3.60	Y	15.0	18.0	6400	4900
PIT8040B-4R7T	4.70	Y	18.0	21.6	5400	4100
PIT8040B-6R8T	6.80	Y	25.0	30.0	4400	3700
PIT8040B-100T	10.00	M	34.0	40.8	3800	3100
PIT8040B-150T	15.00	M	50.0	60.0	2900	2400
PIT8040B-220T	22.00	M	66.0	79.2	2400	2200

* Inductance test Freq.: 100KHz / 0.1V

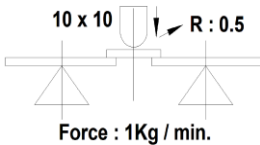
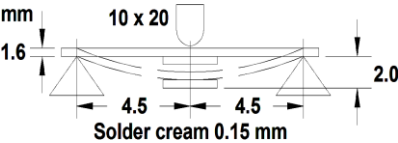
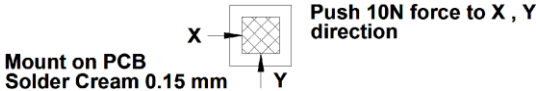
* T=Tolerance: Y = $\pm 30\%$, M = $\pm 20\%$

* The saturation current value (Isat) is the DC current value having inductance decrease 30%. (at 20°C)

* The temperature rise current value (Irms) DC current value having temperature increase up to 40°C (at 20°C)



● **RELIABILITY**

Test Item	Test Condition	Specification												
Dimension	Actual Size ...	Meet Spec												
Thermal Shock (Temperature Cycle)	Temperature: -40 ~ +125°C 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°C Test Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation												
High Temperature	Temperature: 125 ± 2°C Testing Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation												
Low Temperature	Temperature: -40 ± 2°C Time: 96 ± 2 Hours	Elec. no variation Appearance no deformation												
Temperature and Humidity Cycle	<table border="1"> <thead> <tr> <th>Temperature</th> <th>Humidity</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>25°C</td> <td>90% ~ 95% RH</td> <td>3.0 Hr</td> </tr> <tr> <td>55°C</td> <td>95% ~ 96% RH</td> <td>5.0 Hr</td> </tr> <tr> <td>25°C</td> <td>90% ~ 95% RH</td> <td>3.0 Hr</td> </tr> </tbody> </table> Cycle: 20 Cycles	Temperature	Humidity	Time	25°C	90% ~ 95% RH	3.0 Hr	55°C	95% ~ 96% RH	5.0 Hr	25°C	90% ~ 95% RH	3.0 Hr	Elec. no variation Appearance no deformation
Temperature	Humidity	Time												
25°C	90% ~ 95% RH	3.0 Hr												
55°C	95% ~ 96% RH	5.0 Hr												
25°C	90% ~ 95% RH	3.0 Hr												
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°C (90 sec) Peak: 245 ± 5°C Peak Time: 50 Sec. / up 217°C	Elec. no variation Appearance no deformation												
Soldering Heat Resistance	Preheat: 160 ± 10°C (90 sec) Solder: Sn / Ag / Cu (Pb Free) Solder Temp.: 260 ± 5°C, Time: 3 ± 1 seconds	Elec. no variation Appearance no deformation												
Iron Solder Heat Resistance	Solder Temp.: 350 ± 5°C Flux: Rosin, Time: 3 ± 1 seconds	Elec. no variation Appearance no deformation												
Bending Strength	Unit : mm  Force : 1Kg / min.	Elec. no variation Appearance no deformation												
Flexure Strength	Unit : mm  Solder cream 0.15 mm	Elec. no variation Appearance no deformation												
Terminal Strength	 Mount on PCB Solder Cream 0.15 mm Push 10N force to X , Y direction	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°C 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°C (Including self - temperature rise)
- 2. Storage Temp: a. Product with Taping: -10 ~ 45°C, 50 ~ 60% RH
b. On Board: -40 ~ +125°C
- 3. Storage Life Time: 6 Month (Less than 40°C and 60% RH)

Standard Atmosphere Conditions:

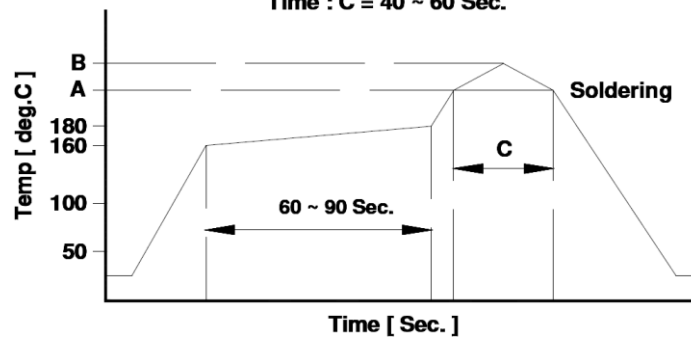
Ambient Temperature 20 ± 15°C; Humidity RH 65 ± 20%

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

Ambient Temperature 25 ± 5°C; Humidity RH 75 ± 10%

●RECOMMEND IR REFLOW CURVE (TIME: Second)

Lead Free Solder : A = 217 deg.C , B = 245+/-5 deg.C
Time : C = 40 ~ 60 Sec.



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

●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°C before PCBA
- * Caution for human life relative applications: PLS contact & consult with AiT team in design stage.



Care Note for Use:

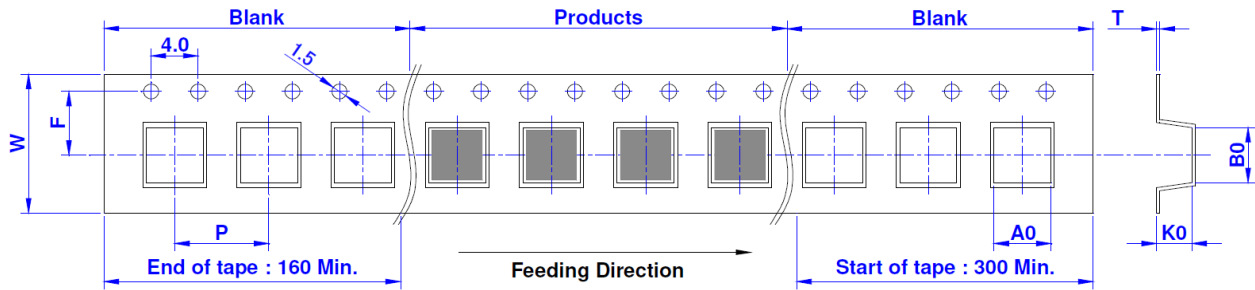
- (1) Storage Condition:
Temperature 25 to 35°C, Humidity 45 to 60% RH
- (2) Use Temperature:
 - a. Minimum Temperature: -40°C Ambient temperature of this product.
 - b. Maximum Temperature: +125°C The value of temperature including ambient and temperature rise of this product.
 - c. Reliability test temperature range from -40 ~ +125°C
 - 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.



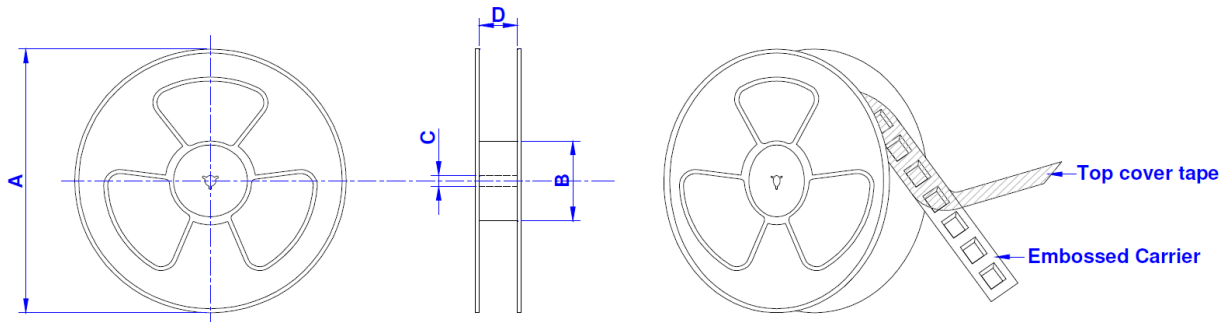
●TAPES DIMENSION: mm



SIZE/mm	W	P	A0	B0	K0	T	F
201610	8.0±0.2	4.0±0.1	2.0±0.1	2.5±0.1	1.4±0.1	0.23±0.05	3.50±0.05
201610H	8.0±0.2	4.0±0.1	2.0±0.1	2.5±0.1	1.4±0.1	0.23±0.05	3.50±0.05
201612	8.0±0.2	4.0±0.1	2.0±0.1	2.5±0.1	1.4±0.1	0.23±0.05	3.50±0.05
2012B	8.0±0.2	4.0±0.1	2.2±0.1	2.2±0.1	1.3±0.1	0.25±0.05	3.50±0.05
2410A	8.0±0.2	4.0±0.1	2.6±0.1	2.6±0.1	1.3±0.1	0.25±0.05	3.50±0.05
2412A	8.0±0.2	4.0±0.1	2.6±0.1	2.6±0.1	1.3±0.1	0.25±0.05	3.50±0.05
252010	8.0±0.2	4.0±0.1	2.45±0.05	3.10±0.05	1.4±0.2	0.23±0.05	3.50±0.05
252010B	8.0±0.2	4.0±0.1	2.45±0.05	3.10±0.05	1.4±0.2	0.23±0.05	3.50±0.05
252010H	8.0±0.2	4.0±0.1	2.45±0.05	3.10±0.05	1.4±0.2	0.23±0.05	3.50±0.05
252012	8.0±0.2	4.0±0.1	2.45±0.05	3.10±0.05	1.4±0.2	0.23±0.05	3.50±0.05
252012H	8.0±0.2	4.0±0.1	2.45±0.05	3.10±0.05	1.4±0.2	0.23±0.05	3.50±0.05
3010A	8.0±0.2	4.0±0.1	3.2±0.1	3.2±0.1	1.4±0.1	0.30±0.05	3.50±0.05
3012A	8.0±0.2	4.0±0.1	3.2±0.1	3.2±0.1	1.6±0.1	0.30±0.05	3.50±0.05
3015	8.0±0.2	4.0±0.1	3.2±0.1	3.2±0.1	1.9±0.1	0.30±0.05	3.50±0.05
4010B	12.0±0.3	8.0±0.1	4.3±0.1	4.3±0.1	1.4±0.1	0.30±0.10	5.50±0.05
4012B	12.0±0.3	8.0±0.1	4.3±0.1	4.3±0.1	1.6±0.1	0.30±0.10	5.50±0.05
4018B	12.0±0.3	8.0±0.1	4.3±0.1	4.3±0.1	2.1±0.1	0.30±0.10	5.50±0.05
5012B	12.0±0.3	8.0±0.1	5.25±0.1	5.25±0.1	1.4±0.1	0.30±0.10	5.50±0.05
5020B	12.0±0.3	8.0±0.1	5.25±0.1	5.25±0.1	2.3±0.1	0.30±0.10	5.50±0.05
5040B	12.0±0.3	8.0±0.1	5.15±0.1	5.15±0.1	4.2±0.1	0.40±0.10	5.50±0.05
6010B	12.0±0.3	8.0±0.1	6.3±0.1	6.3±0.1	1.4±0.1	0.40±0.10	5.50±0.05
6012B	12.0±0.3	8.0±0.1	6.3±0.1	6.3±0.1	1.6±0.1	0.40±0.10	5.50±0.05
6020B	12.0±0.3	8.0±0.1	6.3±0.1	6.3±0.1	2.3±0.1	0.40±0.10	5.50±0.05
6028B	12.0±0.3	8.0±0.1	6.3±0.1	6.3±0.1	3.1±0.1	0.40±0.10	5.50±0.05
6045B	12.0±0.3	8.0±0.1	6.3±0.1	6.3±0.1	4.7±0.1	0.40±0.10	5.50±0.05
8030B	16.0±0.3	12.0±0.1	8.3±0.1	8.3±0.1	3.4±0.1	0.50±0.10	7.5±0.05
8040B	16.0±0.3	12.0±0.1	8.3±0.1	8.3±0.1	4.5±0.1	0.50±0.10	7.5±0.05



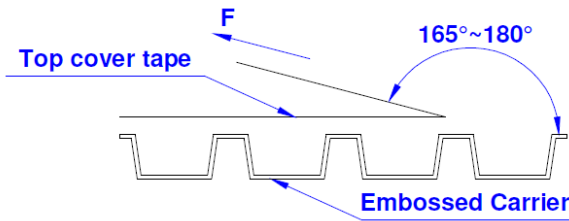
●REEL DIMENSION: mm



Size / mm	Reel Size	A	B	C	D	QTY / Reel
201610	7" x 8 mm	178	60	13	8.5	2000 PCS
201610H	7" x 8 mm	178	60	13	8.5	2000 PCS
201612	7" x 8 mm	178	60	13	8.5	2000 PCS
2012B	7" x 8 mm	178	60	13	8.5	2500 PCS
2410A	7" x 8 mm	178	60	13	8.5	2500 PCS
2412A	7" x 8 mm	178	60	13	8.5	2500 PCS
252010	7" x 8 mm	178	60	13	8.5	2000 PCS
252010B	7" x 8 mm	178	60	13	8.5	2000 PCS
252010H	7" x 8 mm	178	60	13	8.5	2000 PCS
252012	7" x 8 mm	178	60	13	8.5	2000 PCS
252012H	7" x 8 mm	178	60	13	8.5	2000 PCS
3010A	7" x 8 mm	178	60	13	8.5	2000 PCS
3012A	7" x 8 mm	178	60	13	8.5	2000 PCS
3015	7" x 8 mm	178	60	13	8.5	2000 PCS
4010B	13" x 12 mm	330	100	13	12.5	4500 PCS
4012B	13" x 12 mm	330	100	13	12.5	4500 PCS
4018B	13" x 12 mm	330	100	13	12.5	3500 PCS
5012B	7" x 12 mm	178	60	13	12.5	1000 PCS
5020B	7" x 12 mm	178	60	13	12.5	800 PCS
5040B	13" x 12 mm	330	100	13	12.5	1500 PCS
6010B	7" x 12 mm	178	60	13	12.5	1000 PCS
6012B	7" x 12 mm	178	60	13	12.5	1000 PCS
6020B	13" x 12 mm	330	100	13	12.5	2000 PCS
6028B	13" x 12 mm	330	100	13	12.5	2000 PCS
6045B	13" x 12 mm	330	100	13	12.5	1000 PCS
8030B	13" x 16 mm	330	100	13	16.5	1000 PCS
8040B	13" x 16 mm	330	100	13	16.5	1000 PCS



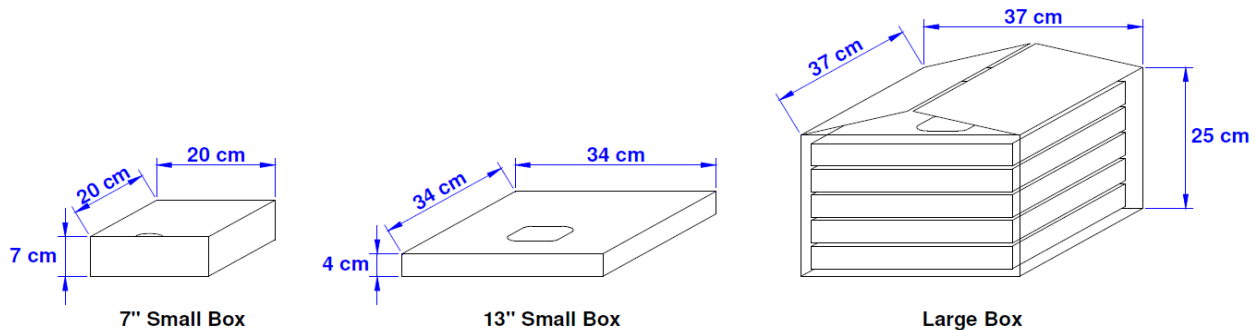
● **TEARING OFF FORCE :**



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 4.11 standard).

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

● **BOX PACKAGE: cm**



SIZE/mm	Reels in Small Box	Small Box in Large Box
201610	5	8
201610H	5	8
201612	5	8
2012B	5	8
2410A	5	8
2412A	5	8
252010	5	8
252010B	5	8
252010H	5	8
252012	5	8
252012H	5	8
3010A	5	8
3012A	5	8
3015	5	8
4010B	2	5
4012B	2	5
4018B	2	5
5012B	4	8
5020B	4	8
5040B	2	5
6010B	4	8
6012B	4	8
6020B	2	5
6028B	2	5
6045B	2	5
8030B	1	5
8040B	1	5



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