

SPECIFICATION FOR APPROVAL

产品承认书

CUSTOMER:

CUSTOMER NO :

PPT PART NO :

PM44-11BP

DESCRIPTION:

10/100 BASE-T TRANSFORMER MODULES

ATTACHMENT:

■ SPECIFICATION

■ SAMPLE Q'TY OF SAMPLES ____ PCS



深圳市磁创新科技有限公司

APPROVAL SIGNATURE

(客户承认签章)

发行

ISSUED

检查

CHECKED
BY

审核

APPROVAL

日期 DATE: 年 月 日

日期 DATE:

PPT

深圳市磁创新科技有限公司

Shenzhen Magnetic Technology CO.,Ltd.

TEL:(86)755-88367400 FAX: (86)755-29625890 Email: sales@pptchina.cn

PLEASE REPLY THIS SHEET TO US AFTER SIGNATURE(请签字后回传本页)

1. FEATURES:

- 1.1 Compliant with IEEE802.3u and ANSI X3.263 standards including 350uH Min OCL with 8mA DC Bias.
- 1.2 16 Pin SOIC Low Profile Package Isolation Modules.
- 1.3 Peak reflow temperature rating 245°C .
- 1.4 Operating temperature rang is 0°C-70°C.
- 1.5 Storage temperature rang is -40°C ~ +85°C.
- 1.6 Remark:Contact PPT For Further Requirements.

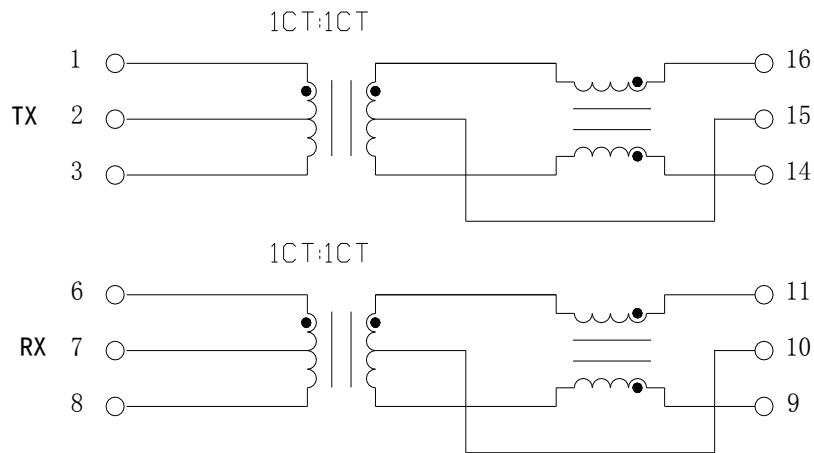
2.ELECTRICAL SPECIFICATIONS @25°C

- 2.1 OCL : 350 uH Min. @ 100 KHz, 100mV with 8 mA DC Bias
- 2.2 Turn Ratio : 1CT:1CT±5% @100KHz,100mV
- 2.3 Primary DCR : 1.2 Ω Max
- 2.4 L.K: 0.5uH Max. @100 KHz, 100mV.
- 2.5 Polarity: Pin1&Pin16,Pin6&Pin11 In-Phase.
- 2.6 Isolation HI-POT: 1500VAC 1mA Max 2Second
- 2.7 Insertion Loss : 1~100MHz= -1.0dB Max
- 2.8 Return Loss: 30MHz= -18.0dB Min
40MHz= -16.5dBMin
50MHz= -14.5dBMin
60~80MHz= -12.0dBMin
- 2.9 Cross Talk : 1~60MHz = -40.0dB Min
60~100MHz = -38.0dB Min
- 2.10 CMRR : 1~100MHz = -30.0dB Min

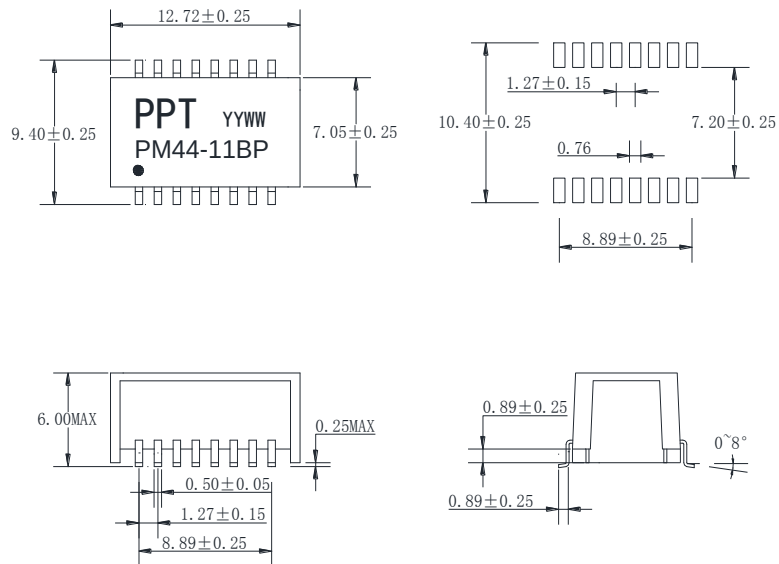


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3. SCHEMATICS:



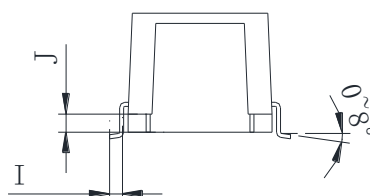
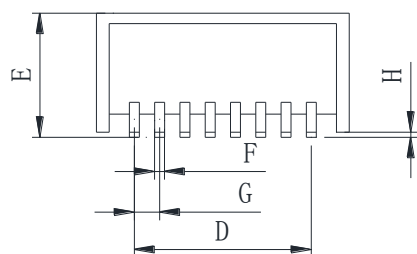
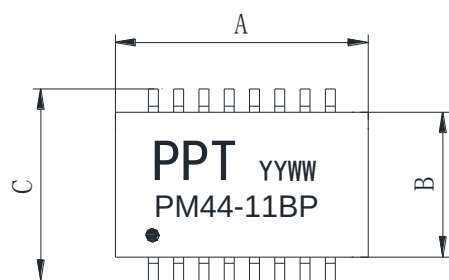
4. DIMENSIONS & MARKING:



Dimension : mm
Unless otherwise specified , all tolerance are ± 0.25



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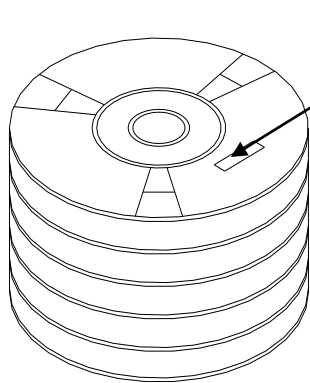
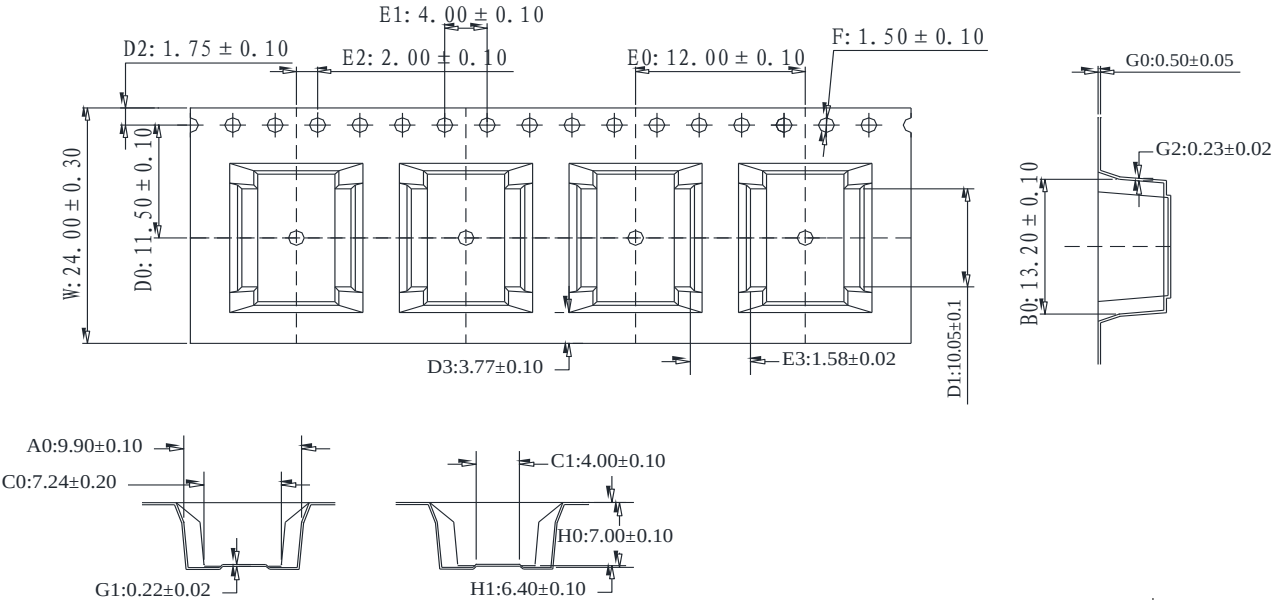
磁创新成品PM44-11BP外观尺寸测量数据

内容 项目	SPEC	1	2	3	4	5	判定	单位
A	12.72±0.25	12.78	12.72	12.70	12.73	12.74	OK	mm
B	7.05±0.25	7.00	7.05	6.99	7.02	7.01	OK	
C	9.40±0.25	9.40	9.42	9.39	9.45	9.43	OK	
D	8.89±0.25	8.84	8.79	8.85	8.90	8.89	OK	
E	6.00MAX	5.80	5.75	5.79	5.74	5.75	OK	
F	0.50±0.05	0.50	0.49	0.48	0.49	0.48	OK	
G	1.27±0.15	1.26	1.25	1.27	1.26	1.27	OK	
H	0.25MAX	0.20	0.22	0.24	0.22	0.20	OK	
I	0.89±0.25	0.81	0.86	0.85	0.89	0.87	OK	
J	0.89±0.25	0.88	0.89	0.85	0.85	0.84	OK	

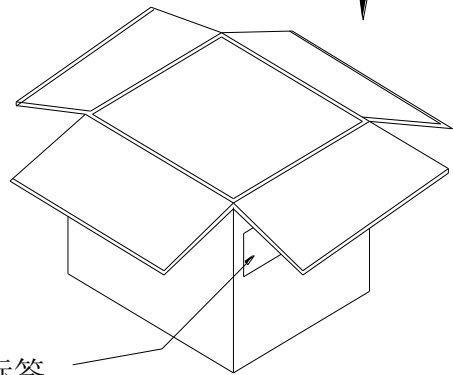


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5. Package :

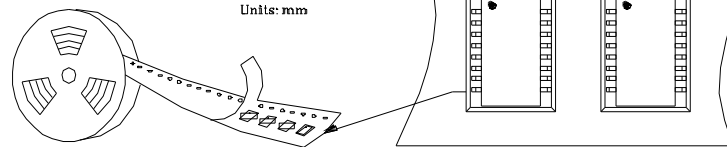
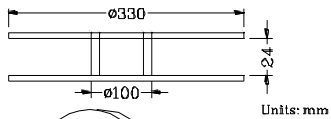


标签



外箱标签

EXPORT CARTON:367(L)x337(W)x235(H)

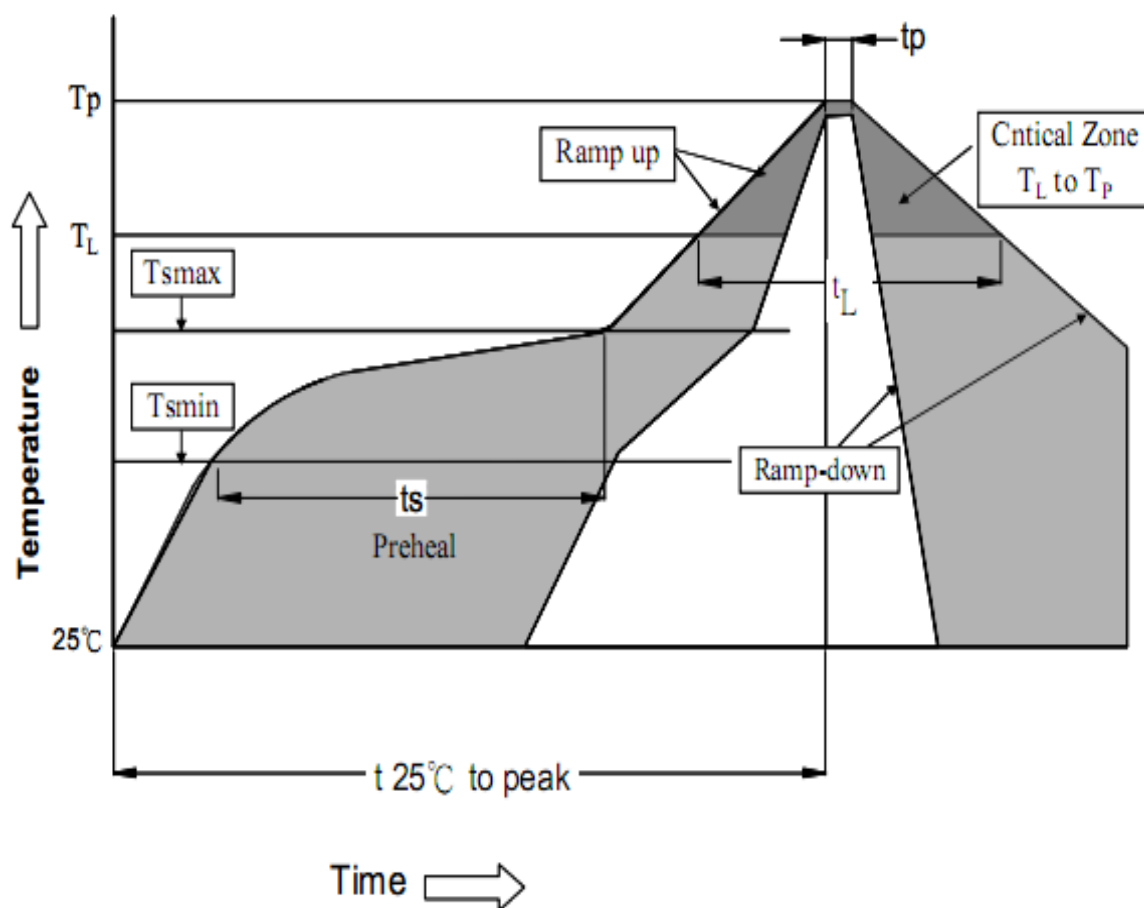


ONE ROLL:650PCS

SIVEN ROLL BOX CARTON:4550PCS

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6. Recommended Reflow Soldering Curve:



$T_L = 217^{\circ}\text{C}$

$T_p = 245^{\circ}\text{C}$

$t_s = 60-180\text{s}$ $T_s \text{ max} = 200^{\circ}\text{C}$

$T_s \text{ min} = 150^{\circ}\text{C}$

$t_L = 60-150\text{s}$ $t_p = 20-40\text{s}$

$T_{25^{\circ}\text{C to peak}} = 8\text{min}$

Ramp up rate = 3°C/s max

Ramp down rate = 6°C/s

*ROHS Compliant

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PM44-11BP TEST DATA 7 OF 8

TEST ITEM	OCL (uH)		DCR (Ω)		L. K (uH)		HI-POT	T/R	
	100KHz, 0. 1V, 8mA DC				100KHz, 0. 1V		1500VAC 1mA 2S	50KHz, 1V	
	350uH Min.		1. 2Ω Max.		0. 5uH Max.			1CT:1CT±5%	
	Pin(1-3)	Pin(6-8)	Pin(1-3)	Pin(6-8)	Pin(16-14)	Pin(11-9)	Pri T0 Sec	TX	RX
1	585	608	0. 66	0. 82	0. 28	0. 25	PASS	PASS	PASS
2	585	562	0. 76	0. 70	0. 25	0. 25	PASS	PASS	PASS
3	535	558	0. 75	0. 82	0. 20	0. 28	PASS	PASS	PASS
4	560	558	0. 77	0. 77	0. 18	0. 18	PASS	PASS	PASS
5	593	575	0. 77	0. 71	0. 22	0. 25	PASS	PASS	PASS
AVERAGE	571. 60	572. 20	0. 74	0. 76	0. 23	0. 24	N/A	N/A	N/A
CPK	3. 09	3. 49	5. 38	4. 26	2. 26	2. 34	N/A	N/A	N/A
MIN	535. 00	558. 00	0. 66	0. 70	0. 18	0. 18	N/A	N/A	N/A
MAX	593. 00	608. 00	0. 77	0. 82	0. 28	0. 28	N/A	N/A	N/A
MAX-MIN	58. 00	50. 00	0. 11	0. 12	0. 10	0. 10	N/A	N/A	N/A
PREPARED BY:				CHECKED BY:			APPROVED BY:		

PM44-11BP TEST DATA 8 OF 8

TEST ITEM	Insertion Loss		Return Loss								Cross talk		CMRR	
	TX1	RX1	TX1				RX1				TX1&RX1	TX1&RX1	TX1	RX1
	1-100MHz		30MHz	40MHz	50MHz	60-80MHz	30MHz	40MHz	50MHz	60-80MHz	1-60MHz	60-100MHz	1-100MHz	
	-1.0dB MAX.		-18.0dB Min.	-16.5dB Min.	-14.5dB Min.	-12.0dB Min.	-18.0dB Min.	-16.5dB Min.	-14.5dB Min.	-12.0dB Min.	-40.0dB Min.	-38.0dB Min.	-30.0dB Min.	
1	-0.61	-0.63	-25.00	-22.00	-18.54	-13.51	-26.23	-24.12	-16.95	-18.20	-76.54	-61.61	-38.70	-38.67
2	-0.53	-0.54	-26.31	-21.69	-17.44	-14.60	-26.74	-22.16	-16.78	-17.80	-78.35	-61.19	-37.53	-39.50
3	-0.55	-0.58	-24.00	-22.73	-18.91	-14.23	-26.20	-22.66	-17.35	-19.85	-76.41	-62.60	-36.68	-38.50
4	-0.57	-0.62	-24.71	-21.53	-18.05	-13.98	-26.64	-23.16	-17.94	-19.94	-80.45	-61.78	-39.40	-39.42
5	-0.63	-0.68	-24.25	-22.32	-18.21	-14.25	-27.46	-21.14	-16.59	-18.38	-76.53	-64.67	-38.47	-36.72
MEAN	-0.58	-0.61	-24.85	-22.05	-18.23	-14.11	-26.65	-22.65	-17.12	-18.83	-77.66	-62.37	-38.16	-38.56
CPK	4.20	3.09	2.53	4.29	2.26	1.75	5.65	2.29	1.63	2.30	7.14	5.87	2.55	2.55
MIN	-0.63	-0.68	-26.31	-22.73	-18.91	-14.60	-27.46	-24.12	-17.94	-19.94	-80.45	-64.67	-39.40	-39.50
MAX	-0.53	-0.54	-24.00	-21.53	-17.44	-13.51	-26.20	-21.14	-16.59	-17.80	-76.41	-61.19	-36.68	-36.72
MAX-MIN	0.10	0.14	2.31	1.20	1.47	1.09	1.26	2.98	1.35	2.14	4.04	3.48	2.72	2.78
PREPARED BY:					CHECKED BY:					APPROVED BY:				