

APPROVED SHEET

CUSTOMER: _____

CUSTOMER P/N: _____

SUR P/N: SF24706P-5G

REV: _____

SPEC NO. _____

DESCRIPTION : 2.5/5G BASE-T

CUSTOMER APPROVAL		COMPANY APPROVAL	
			
INSPECTED BY:		ISSUED BY:	
CHECKED BY:		CHECKED BY:	
APPROVED BY:		APPROVED BY:	
APPROVED DATE:		ISSUED DATE:	

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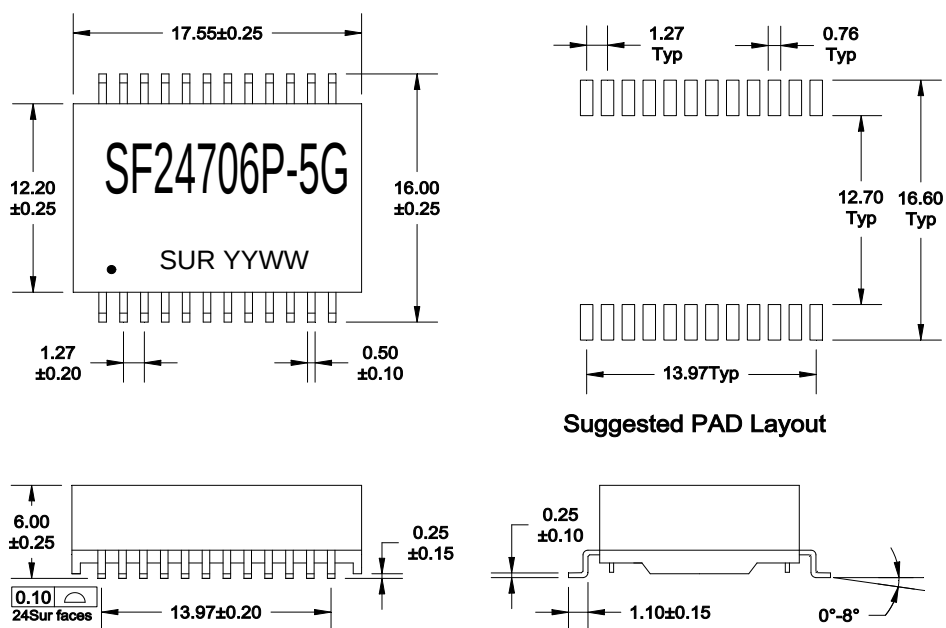


Revision History

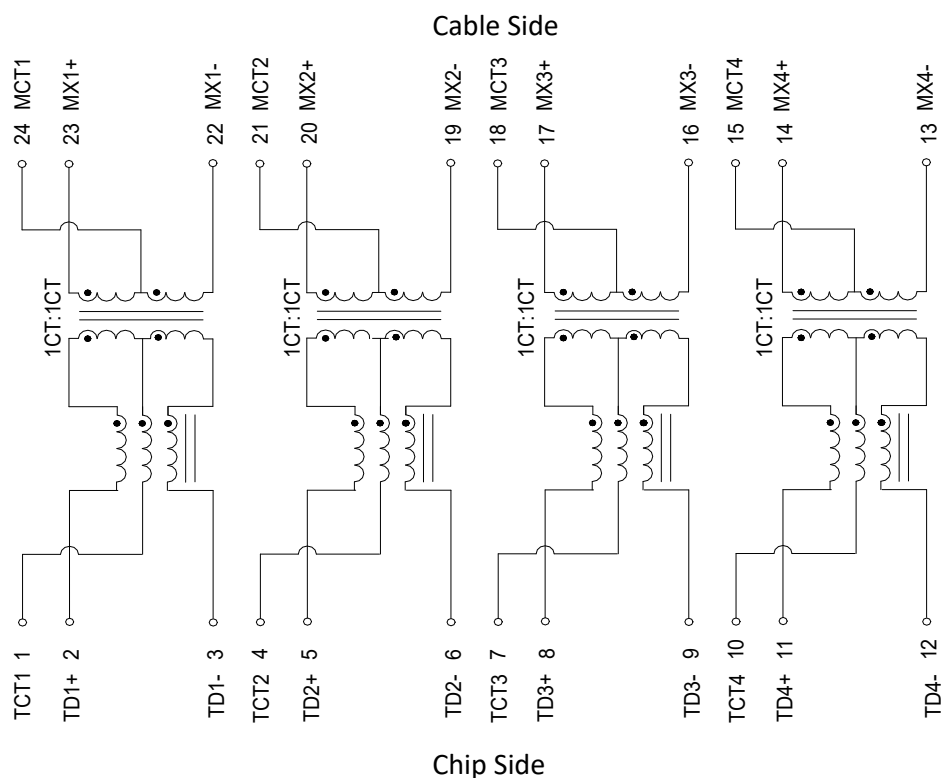
Revision	Changed Date	Request By	Change Content
V0.1	2024/12/13	Yuqing,He	New Version Release
V0.2	2025/4/27	Yuqing,He	更新工作温度为-40°C to +95°C



A. MECHANICAL(unit:mm)



B. Schematics



DESCRIPTION	SUR P/N	SPEC NO	Version No.: V0.2
2.5/5G BASE-T	SF24706P-5G		PAGE: 2/4

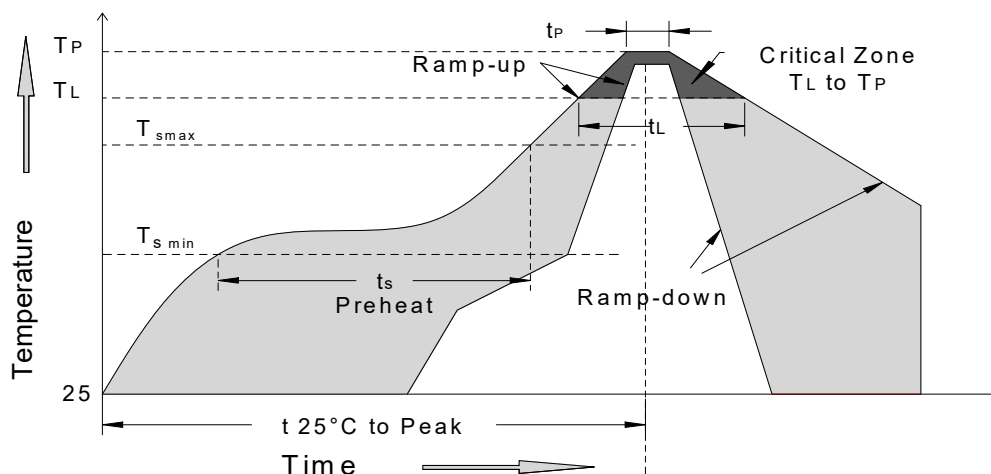


C. ELECTRICAL SPECIFICATIONS @25°C

Unless Otherwise Specified, Testing is Performed at 25°C ± 5°C

1. OCL: 150uH Min @ 100KHz 0.1V with 21mA DC Bias @ 0°C to 70°C
OCL: 100uH Min @ 100KHz 0.1V with 21mA DC Bias @ -40°C to 95°C
2. Leakage Inductance: 0.5uH Max @ 100KHz, 0.1V
3. DCR: 1000mΩ Max
4. Turns Ratio: 1CT:1CT±3%
5. CW/W: 30pF Max @ 100KHz, 0.1V
6. Insertion Loss: -1.0 dB Max @ 1-100 MHz
-2.0 dB Max @ 100-250 MHz
7. Return Loss: -20 dB Min @ $1 \leq f \leq 40$ MHz
 $-20+15*\log(f/40)$ dB Min @ $40 < f \leq 250$ MHz, where f is in MHz
8. Cross Talk: -30 dB Typ @ 1-250 MHz
9. Common Mode Rejection Ratio: -30 dB Typ @ 1-250 MHz
10. Isolation Hipot: 1500VAC 1mA 60S
11. Operating temperature -40°C to +95°C(Included The Temperature Rise)
12. Storage temperature -40°C to +85°C
13. PoE Support 90W: Each channel support 1A DC balance current,
Full channels support 2A DC balance current.

D. RECOMMEND REFLOW SOLDERING CURVE



MSL:

Grade: 1 level. Floor life: 0.5 year Condition: $\leq 30^\circ\text{C}/60\%\text{RH}$.

Ramp up rate= 3°C/s max Ramp down rate= 6°C/s max

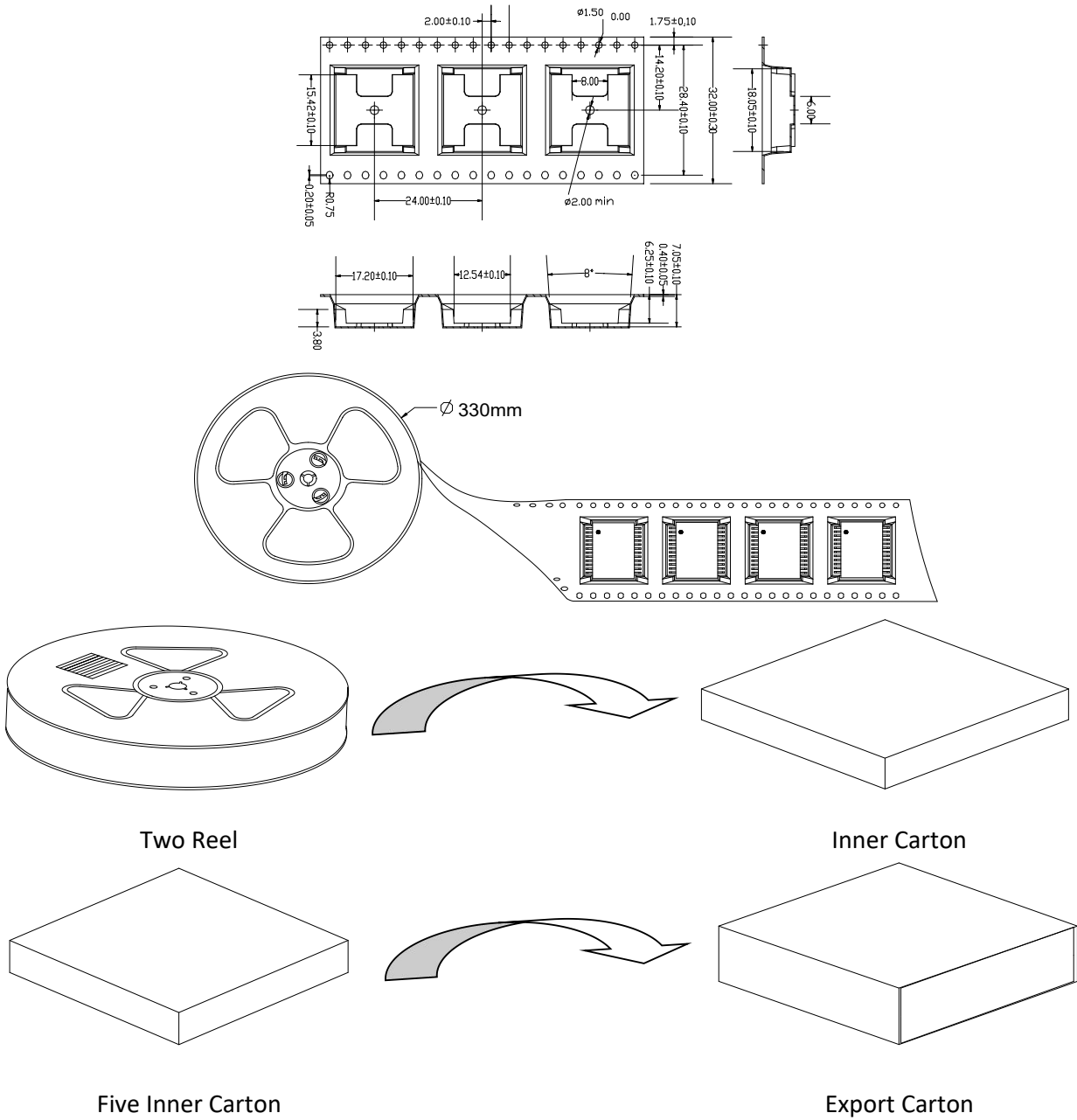
TL= 217°C tL=60s-150s Tp= $250\pm 3^\circ\text{C}$ Time within 5°C of actual Peak Temperature (tp): 20~40s

Ts min= 150°C Ts max= 200°C Ts min to Ts max: 60s-180s, 25°C to peak Temperature: 8minutes max

DESCRIPTION	SUR P/N	SPEC NO	Version No.: V0.2
2.5/5G BASE-T	SF24706P-5G		PAGE: 3/4



E. Packaging specification



Package Quantity:
One Reel=350Pcs
One Inner Carton=350*2=700Pcs
One Export Carton=700*5=3500Pcs

DESCRIPTION	SUR P/N	SPEC NO	Version No.: V0.2
2.5/5G BASE-T	SF24706P-5G		PAGE: 4/4