

# SPECIFICATION FOR APPROVAL

## 产品承认书

CUSTOMER: \_\_\_\_\_

CUSTOMER P/N: \_\_\_\_\_

PPT P/N :

**PTG-9681**

DESCRIPTION:

**1000 BASE-T TRANSFORMER MODULES**

**ATTACHMENT:**

■ SPECIFICATION

■ SAMPLE Q'TY OF SAMPLES \_\_\_\_\_ PCS



湖北磁创电子科技有限公司		<b>APPROVAL SIGNATURE</b> (客户承认签章)	
发行 <b>ISSUED</b>			
检查 <b>CHECKED BY</b>			
审核 <b>APPROVAL</b>			
日期 DATE: 年 月 日		日期 DATE:	

# PPT

湖北磁创电子科技有限公司

Hubei Magnetic Electron 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 Meet The isolation, Insertion Loss and Return Loss Requirements of IEEE802.3.
- 1.2 Designed for long haul Gigabit Ethernet 100/1000Base-T, full Quad channels applications.
- 1.3 Peak reflow temperature rating 260°C .
- 1.4 Operating temperature rang is 0°C-70°C.
- 1.5 Storage temperature rang -25°C-85°C.

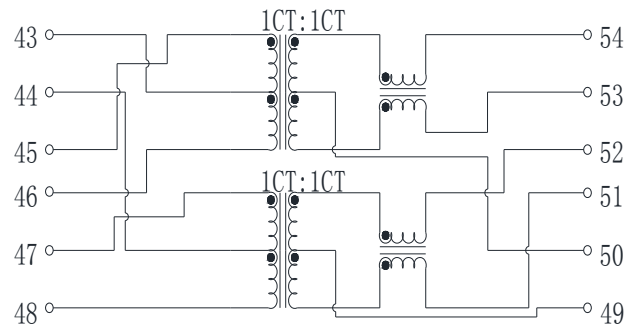
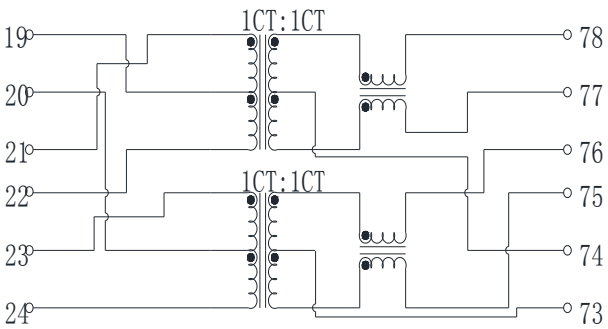
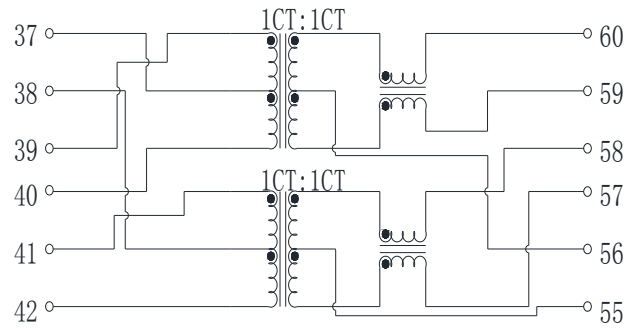
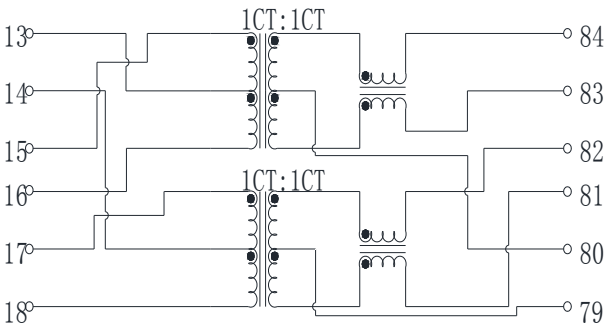
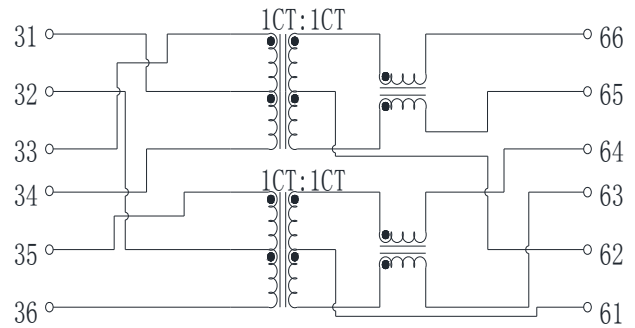
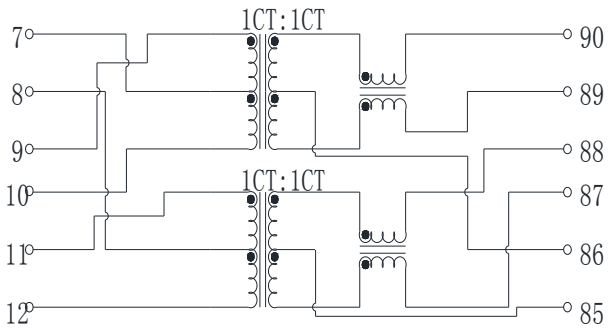
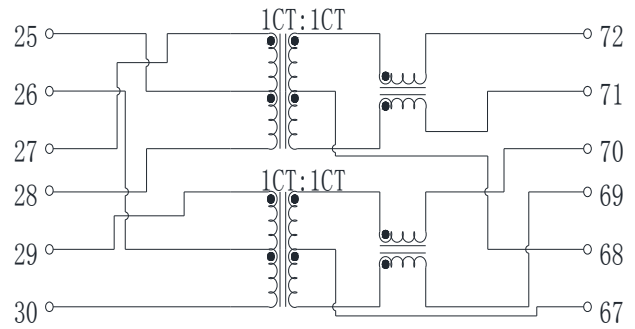
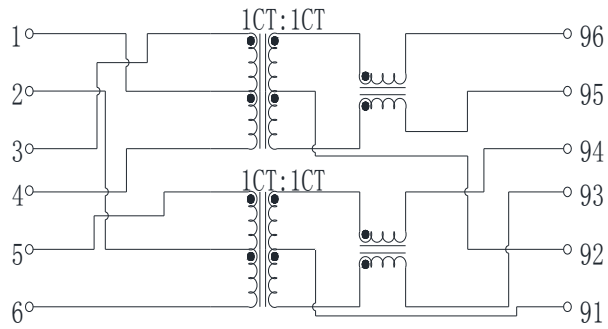
## 2. ELECTRICAL SPECIFICATIONS @25°C

- 2.1 OCL : 350uH Min. @100 KHz, 100mV, With 8mA DC.
- 2.2 Turn Ratio : 1CT:1CT±5%
- 2.3 Insertion Loss :-1.0dB Max @1-100MHz
- 2.4 Return Loss : -18 dB MIN @1 -30MHz  
-14.4 dB MIN @40MHz  
-13.1 dB MIN @50 MHz  
-12 dB MIN @60-80MHz  
-10 dB MIN @100MHz
- 2.5 Cross Talk : -40 dB MIN @30 MHz  
-35.0 dB MIN @60 MHz  
-30.0 dB MIN @100 MHz
- 2.6 DCMR : -30.0 dB MIN @ 30MHz  
-35.0 dB MIN @60 MHz  
-30.0 dB MIN @100 MHz
- 2.7 Isolation HI-POT: 1500VAC, 60Second.



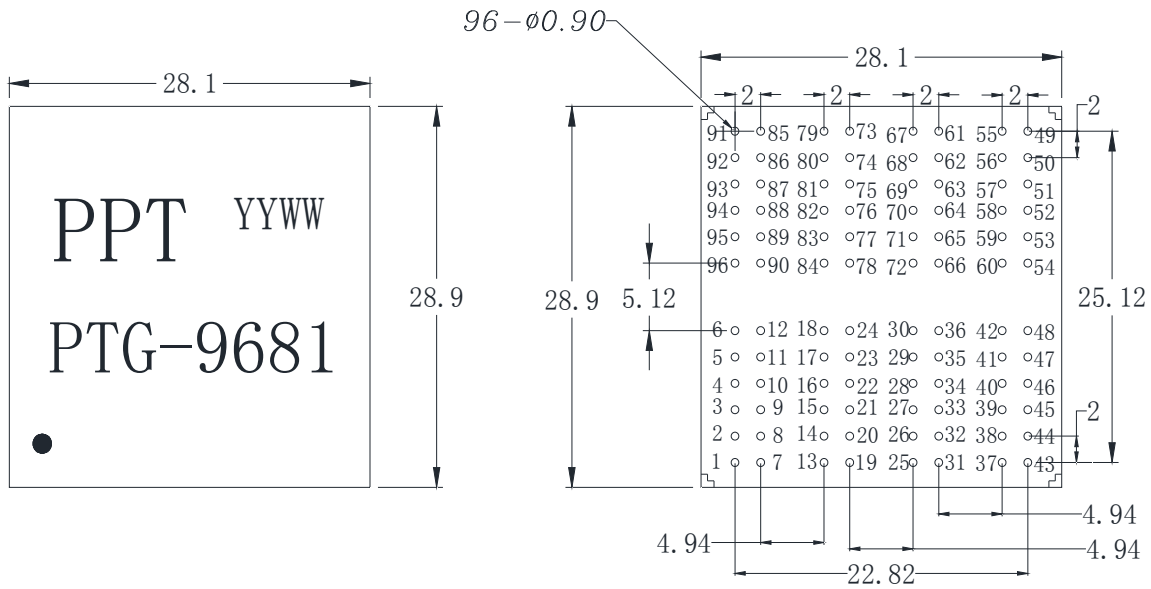
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### 3. SCHEMATICS:

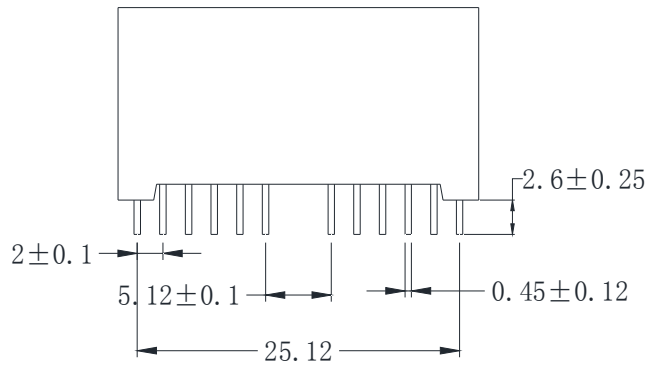
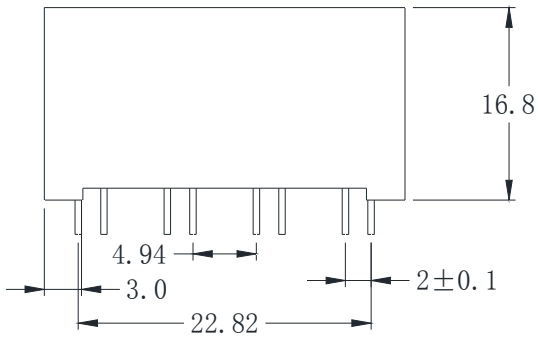


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#### 4. DIMENSIONS & MARKING:



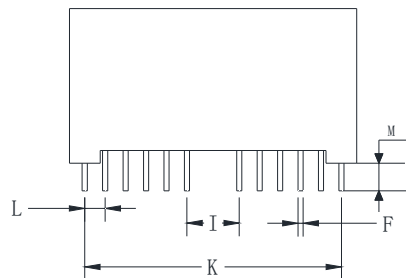
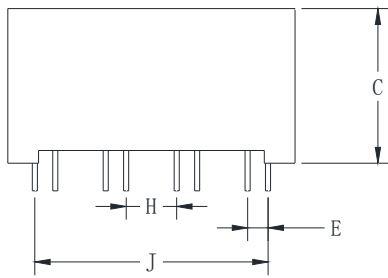
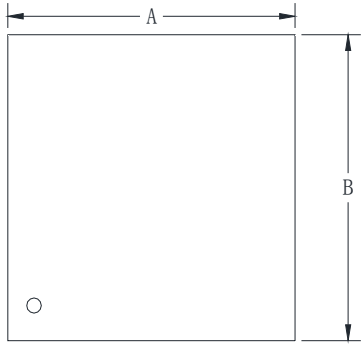
(Component Side)  
Suggested PWB Layout  
Tolerances: .xx±0.05



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



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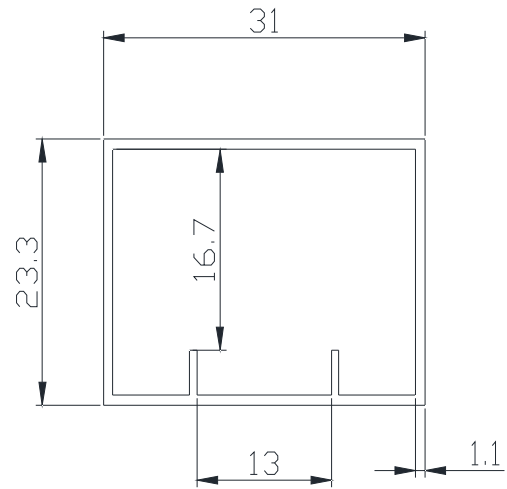
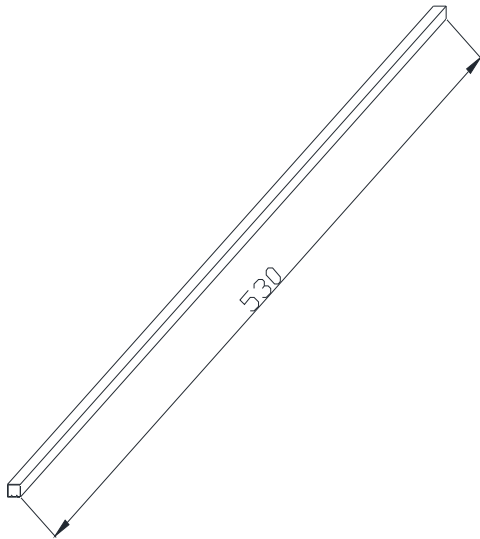
磁创成品PTG-9681外观尺寸测量数据

内容 项目	SPEC	1	2	3	4	5	判定	单位
A	28.1±0.25	28.12	28.13	28.09	28.08	28.11	OK	mm
B	28.9±0.25	28.92	28.91	28.93	28.94	28.89	OK	
C	16.80±0.25	16.68	16.62	16.63	16.66	16.69	OK	
E	2.0±0.10	2.05	2.04	2.03	2.04	2.01	OK	
F	0.45±0.12	0.46	0.46	0.45	0.46	0.45	OK	
H	4.94±0.25	4.96	4.97	4.91	4.92	4.93	OK	
I	5.12±0.10	5.11	5.13	5.15	5.14	5.09	OK	
J	22.82±0.25	22.87	22.81	22.79	22.84	22.85	OK	
K	25.12±0.25	25.13	25.14	25.15	25.11	25.10	OK	
L	2.00±0.10	2.05	1.98	2.04	2.01	2.04	OK	
M	2.6±0.25	2.63	2.65	2.62	2.61	2.64	OK	



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## 5. Package:



Material: Transparent PVC

General Tolerance:  $\pm 0.20\text{mm}$

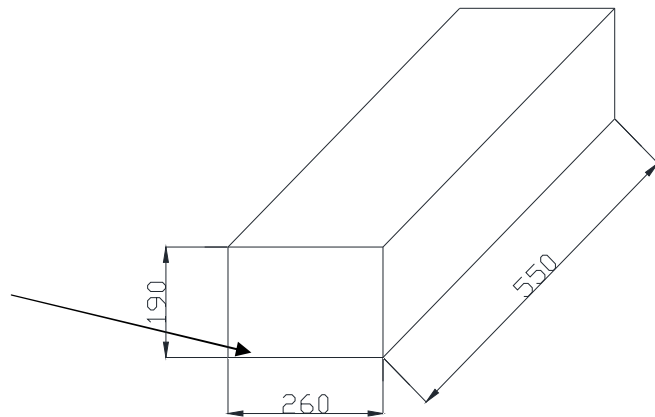
Length:  $530 \pm 2\text{mm}$

Plug Color: White

Thickness:  $0.5 \pm 0.1\text{mm}$

Component: 17PCS/Tube

成品入仓 FINISHED GOODS TO STORE	
产品型号: P/N	
客户代码: Cust.P/N	
随货编号: Lot NO.	
工作单号: W/O.	
数量: Qty	
印字周期: Date Code	PPT
QA确认: QA Audit	FQC
净重: Net Weight	PASS
毛重: Gross Weight	
包装日期: PKG Date	



Material: Paper

Size: 550x260x190 mm

Total Component: 952PCS/BOX



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PART NO. :PTG-9681

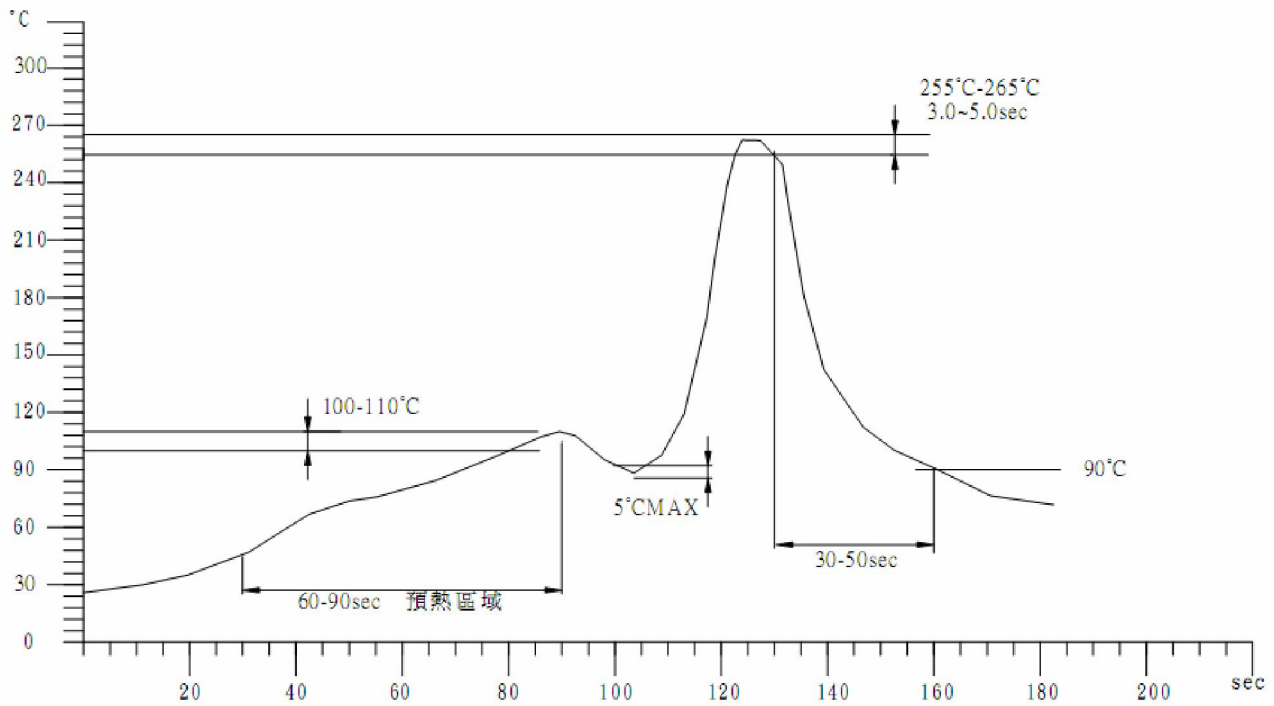
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## 6. Recommended Reflow Soldering Curve:



注：以上溫度曲線僅供參考



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TEST ITEM	OCL(uH) 100KHz,0.1V ,with 8mA DC 350uH Min.																
	Conditions	3/4	5/6	9/10	11/12	15-16	17-18	21-22	23-24	27-28	29-30	33-34	35-36	39-40	41-42	45-46	47-48
1	647.52	645.49	650.5	632.07	621.3	607.32	601.01	623.02	614.52	622.43	567.26	613.63	562.16	608.26	565.65	629.53	
2	615.7	586.57	614.39	612.43	576.59	545.92	592.06	573.54	590.62	550.08	578.92	560.70	613.02	616.08	604.59	582.80	
3	612.8	633.54	627.16	545.8	606.6	602.2	635.50	586.08	572.06	623.08	628.15	586.16	606.04	573.80	635.09	623.09	
4	587.09	624.8	567.8	615.98	558.15	554.17	565.14	562.10	577.60	584.90	560.36	616.05	569.17	573.60	562.70	579.59	
5	610.8	572.74	575.16	613.18	597.6	592.16	573.20	583.80	585.76	603.70	589.72	605.13	611.59	589.70	612.78	569.20	
<b>AVERAGE</b>	614.78	612.63	607.00	603.89	592.05	580.35	593.38	585.71	588.11	596.84	584.88	596.33	592.40	592.29	596.16	596.84	
<b>CPK</b>	4.09	2.79	2.45	2.53	3.24	2.71	2.94	3.43	4.84	2.70	2.94	3.55	3.28	4.14	2.62	3.00	
<b>STD</b>	21.56	31.37	35.01	33.44	24.93	28.35	27.56	22.92	16.41	30.49	26.66	23.12	24.67	19.49	31.28	27.46	
<b>MIN</b>	587.09	572.74	567.80	545.80	558.15	545.92	565.14	562.10	572.06	550.08	560.36	560.70	562.16	573.60	562.70	569.20	
<b>MAX</b>	647.52	645.49	650.50	632.07	621.30	607.32	635.50	623.02	614.52	623.08	628.15	616.05	613.02	616.08	635.09	629.53	
PREPARED BY: .						CHECKED BY:						APPROVED BY:					



TEST ITEM	Turn Ratio : 1CT:1CT±5% @100KHz,100mV																
	TX1	RX1	TX2	RX2	TX3	RX3	TX4	RX4	TX5	RX5	RX6	TX6	TX7	RX7	RX8	TX8	
1	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	
2	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	
3	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	
4	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	
5	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	
AVERAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
CPK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MAX	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MAX-MIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
PREPARED BY:						CHECKED BY:						APPROVED BY:					

TEST ITEM	IL															
	TX1	RX1	TX2	RX2	TX3	RX3	TX4	RX4	TX5	RX5	RX6	TX6	TX7	RX7	RX8	TX8
	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max	-1.0db Max
SPEC	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M	1-100M
1	-0.56	-0.53	-0.49	-0.54	-0.57	-0.52	-0.58	-0.55	-0.51	-0.56	-0.59	-0.54	-0.64	-0.69	-0.63	-0.47
2	-0.58	-0.55	-0.51	-0.56	-0.59	-0.54	-0.60	-0.57	-0.53	-0.58	-0.61	-0.56	-0.71	-0.62	-0.67	-0.51
3	-0.42	-0.39	-0.35	-0.40	-0.43	-0.38	-0.44	-0.41	-0.37	-0.42	-0.45	-0.40	-0.68	-0.65	-0.70	-0.54
4	-0.62	-0.59	-0.55	-0.60	-0.63	-0.58	-0.64	-0.61	-0.57	-0.62	-0.65	-0.60	-0.66	-0.68	-0.63	-0.47
5	-0.57	-0.54	-0.50	-0.55	-0.58	-0.53	-0.59	-0.56	-0.52	-0.57	-0.60	-0.55	-0.63	-0.64	-0.59	-0.43
AVERAGE	-0.55	-0.52	-0.48	-0.53	-0.56	-0.51	-0.57	-0.54	-0.50	-0.55	-0.58	-0.53	-0.66	-0.66	-0.64	-0.48
CPK	1.97	2.10	2.28	2.06	1.93	2.14	1.88	2.01	2.19	1.97	1.84	2.06	3.49	3.98	2.81	4.08
MIN	-0.62	-0.59	-0.55	-0.60	-0.63	-0.58	-0.64	-0.61	-0.57	-0.62	-0.65	-0.60	-0.71	-0.69	-0.70	-0.54
MAX	-0.42	-0.39	-0.35	-0.40	-0.43	-0.38	-0.44	-0.41	-0.37	-0.42	-0.45	-0.40	-0.63	-0.62	-0.59	-0.43

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TEST ITEM	RL1(dB)																																							
	TX1					RX1					RX2					TX2					TX3					RX3					RX4					TX4				
	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min
SPEC	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M
1	-37.7	-25.5	-19.1	-17.1	-14.1	-38.9	-26.7	-20.3	-17.1	-15.3	-37.5	-26.0	-16.5	-14.3	-13.6	-35.8	-26.3	-18.9	-15.7	-15.0	-36.5	-26.9	-19.2	-15.6	-14.6	-37.1	-25.5	-18.0	-15.3	-14.3	-36.8	-25.7	-17.2	-16.0	-15.0	-36.5	-24.3	-18.5	-16.5	-15.5
2	-36.7	-26.2	-18.7	-17.4	-14.0	-37.9	-27.4	-19.9	-17.4	-15.2	-36.2	-25.6	-16.3	-14.5	-13.8	-37.1	-25.7	-17.5	-15.1	-14.4	-36.8	-26.7	-18.1	-15.9	-14.9	-35.8	-26.2	-17.1	-16.0	-15.0	-35.5	-25.6	-17.5	-15.5	-14.5	-35.1	-25.8	-17.7	-17.4	-16.4
3	-38.3	-26.9	-19.2	-16.9	-13.6	-39.5	-28.1	-20.4	-16.9	-14.8	-36.6	-25.9	-16.6	-14.9	-14.2	-37.6	-27.1	-18.4	-15.2	-14.5	-37.2	-25.1	-17.7	-15.4	-14.4	-38.0	-26.6	-17.2	-15.5	-14.5	-35.1	-27.0	-17.4	-15.6	-14.6	-37.6	-26.1	-18.2	-16.3	-15.3
4	-38.6	-25.4	-18.3	-16.9	-13.5	-39.8	-26.6	-19.5	-16.9	-14.7	-36.4	-25.2	-16.0	-14.7	-14.0	-38.0	-26.1	-18.0	-15.2	-14.5	-37.8	-27.1	-17.6	-15.3	-14.3	-35.2	-27.5	-18.1	-16.0	-15.0	-36.7	-27.3	-18.1	-15.9	-14.9	-36.6	-25.5	-17.7	-17.0	-16.0
5	-36.7	-27.5	-18.5	-17.3	-13.9	-37.9	-28.7	-19.7	-17.3	-15.1	-38.6	-24.5	-16.3	-14.1	-13.4	-35.1	-27.7	-17.6	-15.1	-14.4	-35.3	-26.7	-18.2	-16.3	-15.3	-37.6	-26.0	-17.6	-15.4	-14.4	-37.6	-26.8	-17.2	-16.4	-15.4	-37.1	-26.7	-18.8	-16.6	-15.6
AVERAGE	-37.6	-26.3	-18.8	-17.1	-13.8	-38.8	-27.5	-20.0	-17.1	-15.0	-37.1	-25.4	-16.3	-14.5	-13.6	-36.7	-26.6	-18.1	-15.2	-14.5	-36.4	-26.2	-17.9	-15.4	-14.2	-36.4	-26.1	-17.3	-15.3	-14.1	-36.0	-26.2	-17.2	-15.6	-14.4	-36.3	-25.4	-17.9	-16.5	-15.3
CPK	6.6	3.1	3.9	7.0	4.8	7.0	3.5	5.0	7.0	6.3	5.7	4.0	2.8	2.7	3.9	4.5	3.5	2.1	4.5	6.3	5.9	3.4	1.8	2.8	3.4	4.6	3.6	2.1	3.3	4.1	5.2	3.5	2.5	3.3	4.1	5.8	2.8	2.4	3.4	4.0
MIN	-38.6	-27.5	-19.2	-17.4	-14.1	-39.8	-28.7	-20.4	-17.4	-15.3	-38.6	-26.0	-16.6	-14.9	-14.2	-38.0	-27.7	-18.9	-15.7	-15.0	-37.8	-27.1	-19.2	-16.3	-15.3	-38.0	-27.5	-18.1	-16.0	-15.0	-37.6	-27.3	-18.1	-16.4	-15.4	-37.6	-26.7	-18.8	-17.4	-16.4
MAX	-36.7	-25.4	-18.3	-16.9	-13.5	-37.9	-26.6	-19.5	-16.9	-14.7	-36.2	-24.5	-16.0	-14.1	-13.4	-35.1	-25.7	-17.5	-15.1	-14.4	-35.3	-25.1	-17.6	-15.3	-14.3	-35.2	-25.5	-17.1	-15.3	-14.3	-35.1	-25.6	-17.2	-15.5	-14.5	-35.1	-24.3	-17.7	-16.3	-15.3

PREPARED BY:

CHECKED BY:

APPROVED BY:

TEST ITEM	RL2(dB)																																							
	TX1					RX1					RX2					TX2					TX3					RX3					RX4					TX4				
	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min	-18dB Min	-14.40 dB Min	-13.10 dB Min	-12 dB Min	-10 dB Min
SPEC	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M	1-30M	40M	50M	60-80M	100M
1	-37.0	-24.6	-19.1	-16.5	-15.3	-37.8	-23.5	-17.5	-16.2	-15.0	-38.8	-26.4	-16.7	-15.0	-13.8	-36.1	-26.5	-19.2	-15.4	-14.2	-36.7	-27.2	-19.4	-15.3	-14.1	-38.1	-26.7	-18.3	-15.6	-14.4	-37.1	-26.0	-17.4	-16.3	-15.1	-37.7	-25.3	-17.8	-17.8	-15.0
2	-37.5	-25.5	-19.4	-17.4	-16.2	-35.7	-25.9	-18.0	-16.4	-15.2	-37.4	-26.9	-16.5	-15.1	-13.9	-37.4	-25.7	-18.7	-15.3	-14.1	-38.1	-26.4	-18.5	-15.4	-14.2	-36.9	-27.6	-18.4	-16.3	-15.1	-35.8	-26.7	-17.8	-15.8	-14.6	-36.4	-26.9	-18.0	-18.0	-15.7
3	-39.0	-26.1	-19.2	-16.2	-15.0	-37.8	-26.1	-17.5	-15.5	-14.3	-38.0	-26.2	-16.1	-15.4	-14.2	-38.8	-27.4	-19.6	-14.4	-13.2	-36.3	-25.5	-18.8	-15.2	-14.0	-39.2	-27.9	-17.4	-15.8	-14.6	-36.2	-28.1	-18.5	-15.1	-13.9	-38.0	-27.2	-18.4	-18.4	-14.6
4	-38.2	-26.4	-19.5	-16.8	-15.6	-36.5	-25.0	-16.7	-16.3	-15.1	-36.7	-25.5	-16.9	-15.1	-13.9	-38.4	-27.2	-19.1	-15.6	-14.4	-38.1	-27.3	-18.9	-15.7	-14.5	-35.4	-29.0	-19.2	-15.5	-14.3	-37.8	-28.4	-19.2	-15.4	-14.2	-37.7	-26.7	-18.0	-18.0	-16.1
5	-37.1	-26.1	-18.1	-16.2	-15.0	-38.7	-26.7	-17.9	-16.9	-15.7	-36.5	-25.7	-16.7	-14.7	-13.5	-35.4	-28.8	-18.8	-15.2	-14.0	-37.3	-27.8	-18.4	-16.3	-15.1	-37.4	-26.4	-18.7	-14.9	-13.7	-37.7	-27.9	-18.3	-15.9	-14.7	-38.2	-27.8	-19.1	-19.1	-15.7
AVERAGE	-37.8	-25.7	-19.1	-16.6	-15.4	-37.3	-25.4	-17.5	-16.3	-15.1	-37.5	-26.1	-16.6	-15.1	-13.9	-37.2	-27.1	-19.1	-15.2	-14.0	-37.3	-26.8	-18.8	-15.6	-14.4	-37.4	-27.5	-18.4	-15.6	-14.4	-36.9	-27.4	-18.2	-15.7	-14.5	-37.6	-26.8	-18.3	-18.3	-15.4
CPK	7.1	3.6	2.8	3.1	3.6	4.8	2.0	2.0	2.8	3.4	6.2	4.8	2.4	4.1	5.1	3.9	2.6	4.4	2.3	2.9	7.1	3.3	3.7	2.7	3.3	4.1	3.1	2.0	2.4	2.9	6.3	3.1	1.9	2.7	3.2	8.3	3.2	2.5	4.0	3.0
MIN	-39.0	-26.4	-19.5	-17.4	-16.2	-38.7	-26.7	-18.0	-16.9	-15.7	-38.8	-26.9	-16.9	-15.4	-14.2	-38.8	-28.8	-19.6	-15.6	-14.4	-38.1	-27.8	-19.4	-16.3	-15.1	-39.2	-29.0	-19.2	-16.3	-15.1	-37.8	-28.4	-19.2	-16.3	-15.1	-38.2	-27.8	-19.1	-19.1	-16.1
MAX	-37.0	-24.6	-18.1	-16.2	-15.0	-35.7	-23.5	-16.7	-15.5	-14.3	-36.5	-25.5	-16.1	-14.7	-13.5	-35.4	-25.7	-18.7	-14.4	-13.2	-36.3	-25.5	-18.4	-15.2	-14.0	-35.4	-26.4	-17.4	-14.9	-13.7	-35.8	-26.0	-17.4	-15.1	-13.9	-36.4	-25.3	-17.8	-17.8	-14.6

PREPARED BY:

CHECKED BY:

APPROVED BY:

TEST ITEM	CTK(dB)																							
	TX1-RX1			RX2-TX2			TX3-RX3			RX4-TX4			TX5-RX5			RX6-TX6			TX7-RX7			RX8-TX8		
	-40 dB Min	-35 dB Min	-30 dB Min	-40 dB Min	-35 dB Min	-30 dB Min	-40 dB Min	-35 dB Min	-30 dB Min	-40 dB Min	-35 dB Min	-30 dB Min	-40 dB Min	-35 dB Min	-30 dB Min	-40 dB Min	-35 dB Min	-30 dB Min	-40 dB Min	-35 dB Min	-30 dB Min	-40 dB Min	-35 dB Min	-30 dB Min
SPEC	30M	60M	100M	30M	60M	100M	30M	60M	100M	30M	60M	100M	30M	60M	100M	30M	60M	100M	30M	60M	100M	30M	60M	100M
1	-58.9	-44.2	-40.9	-55.9	-43.7	-40.0	-58.8	-43.2	-40.5	-59.8	-43.7	-40.9	-57.8	-41.9	-39.7	-60.4	-43.2	-39.8	-59.5	-43.3	-40.0	-58.3	-44.3	-40.7
2	-60.6	-46.4	-40.1	-55.8	-43.1	-41.0	-57.0	-42.9	-41.0	-57.9	-45.6	-40.1	-57.5	-43.1	-40.9	-61.4	-41.6	-40.8	-57.9	-42.3	-39.4	-58.1	-42.7	-41.6
3	-56.6	-45.4	-40.8	-57.5	-42.9	-41.1	-57.9	-43.6	-40.8	-57.9	-47.3	-39.5	-56.5	-41.7	-40.9	-61.5	-42.0	-40.2	-56.9	-42.1	-40.7	-58.8	-42.6	-41.9
4	-58.6	-43.4	-40.1	-57.3	-42.3	-40.3	-56.9	-42.1	-41.3	-59.4	-46.0	-40.1	-57.3	-42.3	-40.3	-58.7	-43.1	-39.4	-57.8	-43.9	-39.7	-61.4	-43.7	-41.4
5	-60.6	-44.4	-41.0	-57.8	-42.2	-40.2	-57.8	-42.0	-40.4	-60.9	-44.9	-40.0	-58.8	-41.1	-40.5	-58.5	-44.0	-40.4	-59.5	-43.8	-40.4	-59.8	-43.0	-40.7
AVERAGE	-59.1	-44.8	-40.6	-56.9	-42.8	-40.5	-57.7	-42.8	-40.8	-59.2	-45.5	-40.1	-57.6	-42.0	-40.5	-60.1	-42.8	-40.1	-58.3	-43.1	-40.0	-59.3	-43.3	-41.3
CPK	1.8	1.9	5.6	2.4	2.6	5.0	3.3	2.4	7.2	2.3	1.9	4.7	3.1	1.8	5.0	2.4	1.7	4.2	2.4	2.0	4.5	2.3	2.4	5.1
MIN	-60.6	-46.4	-41.0	-57.8	-43.7	-41.1	-58.8	-43.6	-41.3	-60.9	-47.3	-40.9	-58.8	-43.1	-40.9	-61.5	-44.0	-40.8	-59.5	-43.9	-40.7	-61.4	-44.3	-41.9
MAX	-56.6	-43.4	-40.1	-55.8	-42.2	-40.0	-56.9	-42.0	-40.4	-57.9	-43.7	-39.5	-56.5	-41.1	-39.7	-58.5	-41.6	-39.4	-56.9	-42.1	-39.4	-58.1	-42.6	-40.7

PREPARED BY:

CHECKED BY:

APPROVED BY:

TEST ITEM	DCMR1(dB)																							
	TX1			RX1			TX2			RX2			TX3			RX3			TX1			RX1		
	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz
SPEC	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN
1	-53.20	-38.30	-33.10	-54.40	-39.50	-34.30	-55.20	-40.30	-35.10	-55.90	-41.00	-35.80	-55.30	-40.40	-35.20	-54.60	-39.70	-34.50	-54.10	-39.20	-34.00	-54.50	-39.60	-34.40
2	-52.30	-38.40	-33.20	-53.50	-39.60	-34.40	-54.30	-40.40	-35.20	-55.00	-41.10	-35.90	-54.40	-40.50	-35.30	-53.70	-39.80	-34.60	-53.20	-39.30	-34.10	-53.60	-39.70	-34.50
3	-53.40	-39.30	-34.10	-54.60	-40.50	-35.30	-55.40	-41.30	-36.10	-56.10	-42.00	-36.80	-55.50	-41.40	-36.20	-54.80	-40.70	-35.50	-54.30	-40.20	-35.00	-54.70	-40.60	-35.40
4	-53.50	-37.20	-32.00	-54.70	-38.40	-33.20	-55.50	-39.20	-34.00	-56.20	-39.90	-34.70	-55.60	-39.30	-34.10	-54.90	-38.60	-33.40	-54.40	-38.10	-32.90	-54.80	-38.50	-33.30
5	-54.20	-38.30	-33.10	-55.40	-39.50	-34.30	-56.20	-40.30	-35.10	-56.90	-41.00	-35.80	-56.30	-40.40	-35.20	-55.60	-39.70	-34.50	-55.10	-39.20	-34.00	-55.50	-39.60	-34.40
AVERAGE	-53.3	-38.3	-33.1	-54.5	-39.5	-34.3	-55.3	-40.3	-35.1	-56.0	-41.0	-35.8	-55.4	-40.4	-35.2	-54.7	-39.7	-34.5	-54.2	-39.2	-34.0	-54.6	-39.6	-34.4
CPK	6.50	1.48	1.39	7.08	2.01	1.92	7.47	2.37	2.28	7.81	2.68	2.60	7.52	2.42	2.33	7.18	2.10	2.01	6.94	1.88	1.79	7.13	2.06	1.97
MIN	-54.2	-39.3	-34.1	-55.4	-40.5	-35.3	-56.2	-41.3	-36.1	-56.9	-42.0	-36.8	-56.3	-41.4	-36.2	-55.6	-40.7	-35.5	-55.1	-40.2	-35.0	-55.5	-40.6	-35.4
MAX	-54.2	-39.3	-34.1	-55.4	-40.5	-35.3	-56.2	-41.3	-36.1	-56.9	-42.0	-36.8	-56.3	-41.4	-36.2	-55.6	-40.7	-35.5	-55.1	-40.2	-35.0	-55.5	-40.6	-35.4
PREPARED BY:							CHECKED BY:							APPROVED BY:										

TEST ITEM	DCMR2(dB)																													
	TX2			RX2			TX3			RX3			TX1			RX1			TX2			RX2			TX3			RX3		
	30MHz	60MHz	100M Hz	30MHz	60MHz	100M Hz	30MHz	60MHz	100M Hz	30MHz	60MHz	100M Hz	30MHz	60MHz	100M Hz	30MHz	60MHz	100M Hz	30MHz	60MHz	100M Hz	30MHz	60MHz	100M Hz	30MHz	60MHz	100M Hz	30MHz	60MHz	100M Hz
<b>SPEC</b>	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN	-40dB MIN	-35dB MIN	-30dB MIN
1	-54.80	-39.90	-35.80	-55.20	-40.30	-36.20	-54.60	-39.70	-35.60	-55.30	-40.40	-36.30	-54.60	-39.70	-35.60	-55.30	-40.40	-36.30	-55.50	-40.60	-36.50	-55.10	-40.20	-36.10	-54.90	-40.00	-35.90	-55.20	-40.30	-36.20
2	-53.90	-40.00	-35.90	-54.30	-40.40	-36.30	-53.70	-39.80	-35.70	-54.40	-40.50	-36.40	-53.70	-39.80	-35.70	-54.40	-40.50	-36.40	-56.30	-40.70	-36.60	-54.20	-40.30	-36.20	-54.00	-40.10	-36.00	-54.30	-40.40	-36.30
3	-55.00	-40.90	-36.80	-55.40	-41.30	-37.20	-54.80	-40.70	-36.60	-55.50	-41.40	-37.30	-54.80	-40.70	-36.60	-55.50	-41.40	-37.30	-58.20	-41.60	-37.50	-55.30	-41.20	-37.10	-55.10	-41.00	-36.90	-55.40	-41.30	-37.20
4	-55.10	-38.80	-34.70	-55.50	-39.20	-35.10	-54.90	-38.60	-34.50	-55.60	-39.30	-35.20	-54.90	-38.60	-34.50	-55.60	-39.30	-35.20	-55.80	-39.50	-35.40	-55.40	-39.10	-35.00	-55.20	-38.90	-34.80	-55.50	-39.20	-35.10
5	-55.80	-39.90	-35.80	-56.20	-40.30	-36.20	-55.60	-39.70	-35.60	-56.30	-40.40	-36.30	-55.60	-39.70	-35.60	-56.30	-40.40	-36.30	-56.50	-40.60	-36.50	-56.10	-40.20	-36.10	-55.90	-40.00	-35.90	-56.20	-40.30	-36.20
AVERAGE	-54.9	-39.9	-35.8	-55.3	-40.3	-36.2	-54.7	-39.7	-35.6	-55.4	-40.4	-36.3	-54.7	-39.7	-35.6	-55.4	-40.4	-36.3	-56.5	-40.6	-36.5	-55.2	-40.2	-36.1	-55.0	-40.0	-35.9	-55.3	-40.3	-36.2
CPK	7.28	2.19	2.60	7.47	2.37	2.77	7.18	2.10	2.51	7.52	2.42	2.82	7.18	2.10	2.51	7.52	2.42	2.82	5.22	2.51	2.91	7.42	2.33	2.73	7.33	2.24	2.64	7.47	2.37	2.77
MIN	-55.8	-40.9	-36.8	-56.2	-41.3	-37.2	-55.6	-40.7	-36.6	-56.3	-41.4	-37.3	-55.6	-40.7	-36.6	-56.3	-41.4	-37.3	-58.2	-41.6	-37.5	-56.1	-41.2	-37.1	-55.9	-41.0	-36.9	-56.2	-41.3	-37.2
MAX	-55.8	-40.9	-36.8	-56.2	-41.3	-37.2	-55.6	-40.7	-36.6	-56.3	-41.4	-37.3	-55.6	-40.7	-36.6	-56.3	-41.4	-37.3	-58.2	-41.6	-37.5	-56.1	-41.2	-37.1	-55.9	-41.0	-36.9	-56.2	-41.3	-37.2

PREPARED BY:

CHECKED BY:

APPROVED BY: