



Premstätten, June 1, 2017

Process Change Notification
PCN20-2017 (PCB upgrade)

Dear Customer,

Please be informed about the following change.

The PCB supplier, Dongguan Lian Mao Electronic Technology Company (ITEQ), for marketing reasons, is upgrading the actual IT180 PCB model to a new model IT180A. The production of IT180 finished end of last year. The material will be flushed out after end of June/2017.

No significant differences are expected in the application. The PCB is a lead free product with similar color. The main datasheet differences can be resumed in the following table:

Items	Condition	Spec	IT180	IT180A	
Tg	DSC	≥170°C	175	175	
Td	Wt5%loss	≥340°C	350	345	
CTE	z	< Tg	≤60ppm/°C	50	45
		> Tg	≤300ppm/°C	250	210
		50-260°C	≤3.5%	3	2.7
Volume Resistivity	E24/125	≥1000MΩ.cm	10 ¹¹	10 ¹¹	
Surface Resistance	E24/125	≥1000MΩ	4*10 ¹⁰	4*10 ¹⁰	
Dielectric Constant	C-96/20/65	1Mhz	≤5.4	4.2	4.4
		1Ghz	≤5.4	4.2	4.4
dissipation Factor	C-96/20/65	1Mhz	/	0.17	0.015
		1Ghz	≤0.035	0.017	0.015
Arc Resistance	TM-650	≥60S	125	125	
T260	TMA	≥30min	>60	>60	
T288	TMA	≥15min	>30	>30	
Moisture absorption	TM-650	≤0.5%	0.12	0.12	
Contain halogen(yes/no)	/	/	yes	yes	

Tg: Glass Transition Temperature

Td: Decomposition Temperature

CTE: Coefficient of Thermal Expansion. z means in the “z” direction

T260/T288: Tests according IPC-TM-650 Test Method 2.4.24.1



According to the table, the product capability performance is better, as it still belonging to the high Tg, with a lower z-CTE, slightly lower Dielectric Constant (Dk) and lower Dissipation Factor (Df).

ams Sensors Germany GmbH, together with the supplier, evaluated the change and considered pass.

The products affected by this change are listed on page 3.

Please be advised that unless we receive your written refusal concerning this PCN within 30 days, the PCN shall be deemed accepted.

This declaration is approved by:

Joao Coutinho
Quality Engineer



Product list

Ordering Code	Product Description	Material ID	
IAQ2000 DAC CON	iAQ-2000 Module LF DAC-IF w. conn. TRA	500790016	*
IAQ2000 I2C CON	iAQ-2000 Module LF I2C-IF w. conn. TRA	500790014	*
IAQ-CORE C	iAQ-core Module LF cont. operation TRA	500810009	
IAQ-CORE P	iAQ-core Module LF pulsed operation TRA	500810010	
IAQ-ENGINE	iAQ-engine Module LF I2C & 0-5V-IF TRA	500810006	*
IAQ-ENGINE/T	iAQ-engine/T Module LF I2C & 0-5V-IF TRA	500810007	*

Product Description	Material ID	
iAQ-2000 Module LF I2C-IF w/o conn. TRA	500790015	*
iAQ-2000 Module LF DAC-IF Trox TRA	500790017	*
iAQ-2000 Module LF DAC-IF w/o conn. TRA	500790018	*
iAQ-3000 Module LF with connector TRA	500790019	*

* EoL - please refer to notification dated Dec.2016
