ams AG Tobelbader Strasse 30 8141 Premstaetten Austria T +43 3136 500-0 F +43 3136 525-01 sensors@ams.com www.ams.com



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/ ℃	250	210
		50-260 ℃	≤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	1Mhz	C-96/20/65	≤5.4	4.2	4.4
Constant	1Ghz		≤5.4	4.2	4.4
dissipation	1Mhz	C-96/20/65	/	0.17	0.015
Factor	1Ghz		≤0.035	0.017	0.015
Arc Resi	Arc Resistance		≥60S	125	125
T26	T260		≥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

Bankverbindungen/ Bankaccounts UniCredit Bank Austria AG, Graz IBAN EUR AT28 1200 0763 1316 1100 BIC BKAUATWW IBAN USD AT60 1200 0763 1316 1106 BIC BKAUATWW Firmenbuchgericht Graz Firmenbuch Nr. FN 34109k DVR 0420352 UID/VAT ATU 28560205



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