



**estec**

European Space Research  
and Technology Centre  
Keplerlaan 1  
2201 AZ Noordwijk  
The Netherlands  
T +31 (0)71 565 6565  
F +31 (0)71 565 6040  
[www.esa.int](http://www.esa.int)

**Amphenol Invotec  
att. H Swarbrick  
Hedging Lane  
Tamworth  
B77 5HH  
United Kingdom**

Our ref.      ESA-TECMSP-LE-015965

Noordwijk, 02/03/2020

VISA:      T Rohr (TEC-MSP)

**Subject: Qualification renewal rigid-flex PCBs from Invotec**

Dear Mr Swarbrick,

Invotec submitted a PCB of rigid-flex sequential polyimide technology to ESA for qualification renewal in May 2019. The successful outcome is reported in ESA-TECMSP-RP-015399.

An audit has been performed at Invotec in Jul 2019 by ESA and Invotec's main customer. The successful audit closure is reported in ESA-TECMSP-MIN-014921.

The PIDs have been updated as per ECSS-Q-ST-70-60.

Amphenol Invotec Tamworth is considered qualified in accordance with ECSS-Q-ST-70-60C for the manufacture of Printed Circuit Boards as follows:

- Rigid-flex sequential polyimide PCBs in accordance with PID SM19T.iss.04 **until Dec 2021**

Best regards,

Stan Heltzel  
Materials & Processes Section