

STRICTLY CONFIDENTIAL SUBJECT TO NON-DISCLOSURE AGREEMENT THIS DRAWING IS FOR SAMPLES & PROTOTYPES ONLY
TO BE ISSUED TO MICROCHIP APPROVED MANUFACTURERS ONLY **Material Specifications Material Thickness Specification** design rules Main ITO ITO 0.03um 55 Ohms/sq ± 10 Ohms Minimum track / gap = 30um ± 10% 1.25um ± 0.25um Er = 3.60Insulator Insulator 0.4 Ohms/sq ± 10% Metal Minimum track width 12um 0.3um Metal crossovers Metal 0.4 Ohms/sq ± 10% Minimum track / gap = 30um ± 10% Metal tracks 0.3um Er = 3.60Insulator 3um ± 0.25um Protection Layer Er = 4.60OCA Optically clear adhesive 0.25mm ± 10% PET film PET 0.125mm ± 10% Er = 3.00Shield ITO ITO 75 Ohms/sq ± 15 Ohms 0.03um Silver 8um ± 10% 0.15 Ohms/sq ± 10% Minimum track width 500um Silver tracks 0.079mm ± 10% Er = 3.00PET/OCA Anti-splinter film Pad contact resistance <1 Ohm, Pads 0.20 x 1.8mm on 0.4mm pitch ACF / ACP / ACA FPC interconnect <20um Peel strength >5N/cm **Alignment Tolerances** Layer to Layer Alignment ± 15um Print to Edge of Glass ± 200um Metal to ITO ± 15um **Assumptions** Dragontrail Glass or similar 1.10mm ± 10% Cover Glass Er = 7.37Black Pantone EC non-conductive ink 20um ± 5um Er = 3Decoration Logo white non-conductive ink Air Er = 1.010.30mm ± 10% Airgap to display **Performance Calculations** Charge Time 2.73us Worst case touch separation in X 10.96mm 9.70mm Worst case touch separation in Y Touch separation difference 1.27mm Title: 15.6" ITO on Glass TS Single Diamond G2 40X 71Y | mXT2912TDA CAD Check: Engr Check: Filename: 76149.cdr Approved: Sheet 2 of 2 Drawn: P Cassidy © 2018 Microchip Techology Inc - This drawing and its contents are strictly confidential and provided for INFORMATION PURPOSES ONLY.

Under NO circumstances should the drawing and its contents be copied, sold. **Preliminary Drawing** A2 Tracking errors corrected, centre Y block y54 -Y61 N/A PFC 7th Sept 2018 transferred, or reproduced in whole or in part without the prior written conditions of Microchip Technology Inc. Not for Manufacture A1 Minor changes to metal tracking & ITO shield layers N/A PFC 6th Aug 2018 **MICROCHIP** N/A PFC 23rd July 2018 A0 First Issue ECN Drn All components and materials used must be RoHS compliant as described in European Parliament Directive 2002/95/EC | ISS C D