

ESA Capability Approved Hybrid and MCM Manufacturers

Manufacturer	Technology	PID reference	Certificate Validity	Contact Point	Plant Address
3D Plus * Buc France	3D Stacking Technology MCM-V *	3300-0546 Rev 10 28-10-2015	Jan 2017	Mr. P. Maurice pmaurice@3d-plus.com	408, rue Helene Boucher 78532 Buc France
Airbus DS – France Elancourt France	Thick Film, Low Power, Low Frequency, Chip and Wire, Kovar Package (Dual-in-Line, Plug-In, Flat Pack)	GM.HYBR.NT.220. V.MMS Ed. 17 Rev 02, 26-05-2014	Jan 2016	Mr. D. Mahasoro dominique.mahasoro@astrium.eads.net	1 Boulevard Jean Moulin CS 30503 78997 Elancourt Cedex France
Airbus DS–France Elancourt France	Smart HTCC Multi Chip Modules, Aluminum Nitride ISP (Integrated Substrate Package), single and double cavity	GM.HYBR.NT.879. V.ASTR Ed. 06 Rev. 02, 26-05-2014	Jan 2016	Mr. D. Mahasoro dominique.mahasoro@astrium.eads.net	1 Boulevard Jean Moulin CS 30503 78997 Elancourt Cedex France
Rhe Microsystems Radeberg Germany	Thick Film, Low and Medium Power, Chip and Wire, Hybrids Kovar Packages	L7.103 Issue 5 31-07-2009	Dec 2016	Mr. A. Schwarz andreas.schwarz@rhe.de	Heidestrasse 70 01454 Radeberg Germany
Sagem Valence France	Thick Film Low and Medium Power, Chip and Wire, Kovar Package, Double Cavity Ceramic Package	AQA 511 Rev. Y 21-07-2015	Dec 2016	Mr. M. Raou michel.raou@sagem.com	95, route de Montelier- BP234 26002 Valence France
TESAT Spacecom Backnang Germany	Thin Film Microwave Hybrids based on MMIC and Metal Packages with Ceramic Feed-Thru	63.0200.005.00PID Rev. G 16-04-2014	Jan 2016	Mr. E. Moess eberhard.moess@tesat.de	Gerberstrasse 49 71522 Backnang Germany

ESA Capability Approved Hybrid and MCM Manufacturers

Manufacturer	Technology	PID reference	Certificate Validity	Contact Point	Plant Address
Thales Alenia Space – ETCA Charleroi Belgium	LLKO, LLCE (Thick Film, Low Power, Low Frequency, Kovar or Ceramic Package) HPMO (High Power Molybdenum Package), MCPH (Multi Cavity, Aluminum Package)	9100.0683 Issue 6.0 04-12-2014	Dec. 2016	Mr B. Goffin benoit.goffin@thalesaleniaspace.com Mrs. G. Taminiau Geraldine.TAMINIAU@thalesaleniaspace.com	101 Rue Chapelle Beaussart 6032 Mont sur Marchienne Belgium
Thales Alenia Space - France Toulouse France	Thin Film, Microwave Hybrid (micropackages, Macropackages, MCMC/HTCC)	39 731 284/924 Ed. 08 20-05-2015	ESCC PCA 332/ May 2017	Mr. M. Lambert Marc.Lambert@thalesaleniaspace.com	26, Av. J.F. Champollion 31037 Toulouse France
Thales Alenia Space – Italy L' Aquila Italy	Thick Film, Low Power, Low Frequency, Chip and Wire, Kovar and Ceramic Package	PCP-14-40-001 Rev. J 23-09-2008	Recertification ongoing	Mr. U. Di Marcantonio ulisse.dimarcantonio@thalesaleniaspace.com Mr. M. Valente Massimiliano.Valente@thalesaleniaspace.com	SS 17 Località Boschetto 67100 L'Aquila Italy
Thales Alenia Space -Italy L' Aquila Italy	Thin Film, Low Power, Low Frequency, Chip and Wire, Kovar Package	PCP-14-30-001 Rev. M 05/07/2010	Jan 2013 Renewal ongoing	Mr. U. Di Marcantonio ulisse.dimarcantonio@thalesaleniaspace.com Mr. M. Valente Massimiliano.Valente@thalesaleniaspace.com	SS 17 Località Boschetto 67100 L'Aquila Italy
Thales Alenia Space -Italy L' Aquila Italy	Thin Film, and LTCC Microwave Hybrid (Kovar Package, Aluminum Package, LTCC ISP)	PCP-14-60-013 Issue D 12/01/2011	Recertification being completed @ new site	Mr. U. Di Marcantonio ulisse.dimarcantonio@thalesaleniaspace.com Mr. M. Valente Massimiliano.Valente@thalesaleniaspace.com	SS 17 Località Boschetto 67100 L'Aquila Italy

Last update: July 2016