ES	CC		EPPL COM	PONENT
Originator: Fernando Marti	inez	Status: CLOSED		
Company: UMS			Acce	pted: 2015-07-03
EPPL Part:	2			
Group:	MICROCIRC	UITS	Subgroup:	MICROWAVE MONOLITIC
Part type:				INTEGRATED CIRCUITS (MMIC)
	CHA5350-99	F		
Description:	K-band Power Amplifier			
Detail spec:	detail_spec_mmic_cha5350_150205_vmgp26022015.docx			
Package:	-			
Manufacturer:	UMS			
APPROVAL STATUS				
Qualification:		Others		
Other:		MMIC process PPH15X-10 is listed in EPPL part2 Space validation of this die has been completed satisfactorily under ESA ECI 2 program		
Highest screening level (MIL):		-		
Evaluation programmes or other approvals:		MMIC design fully validated in accordance with ECSS-Q-ST-60-12		
Former space usage:		-		
PREVIOUS PROCUREMENT AND TEST DATA				
Test data (Evaluation, Lot acceptance, DPA, MIL QCI/TCI,): Summary report available				
RADIATION HARDNESS DATA				
Total dose effects:		Radiation tests were performed on the process for TID and Displacement Damage		
Displacement damage:				
Single event effects (SEL/SE	U/SET/SEFI/S	EB/SEGR/others):	SEE test with RF on the M UCL. The MMIC (CHA535 technology has been subr heavy ion beam up to a flu Basic Specification No. 25 been observed up to Vds The circuit safe operating compression has been su	MIC has been performed at 50) manufactured on PPH15X-10 nitted successfully to Xenon uency of 107 ions/cm-2 (ESCC 5100). No catastrophic failure has = 7V and 5dB of compression. area of Vds = 6V and 4dB of ccessfully covered.



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Accepted: 2015-07-03

REMARKS