

EPPL COMPONENT

Originator: Takashi Tamura

Company: UMS

Status: CLOSED

Accepted: 2012-06-26

EPPL Part:	2			
Group:	MICROCIRCUIT	S	Subgroup:	MICROWAVE MONOLITIC
Part type:				(MMIC)
	HB20PX-10			
Description:	HBT InGaP (2 μm emitter width) Applications in Power Amplifiers up to Ku Band Absolute Maximum Ratings (AMR) for HB20PX-10: - Base to Collector Voltage : Vbc = 11.0V - Collector to Emitter Voltage: Vce = 9.5V (VSWRmax = 2 and 4dBC of Compression, Jce = 33000A/cm ² for single cell transistor in CW mode and Jce = 22000A/cm ² for bi-cell transistor in pulsed mode) - RF Compression = 5 dB (under maximum operating conditions) - Max DC Collector Emitter Current Density: Jce = 40000A/cm ² per emitter area (in pulsed mode for Bi-Cell Transistor) - Base to Emitter Voltage: Vbe = 2.5V			
Detail spec:				
Package:	N/A			
Manufacturer:	UMS			
APPROVAL STATUS				
Qualification:	Ot	thers		
Other:				
Highest screening level (MIL):		ull qualification	according to ESCC standards	completed in March 2008
Evaluation programmes or other approvals:				
Former space usage:				
PREVIOUS PROCUREMENT AND TEST DATA				
Test data (Evaluation, Lot acceptance, DPA, MIL QCI/TCI,):				
RADIATION HARDNESS DATA				
Total dose effects:				
Displacement damage:				
Single event effects (SEL/SEU/SET/SEFI/SEB/SEGR/others):				



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REMARKS

It is the responsibility of the users to check that the process design can withstand the radiation requirements for its application. Max ratings should be in conformance with the application