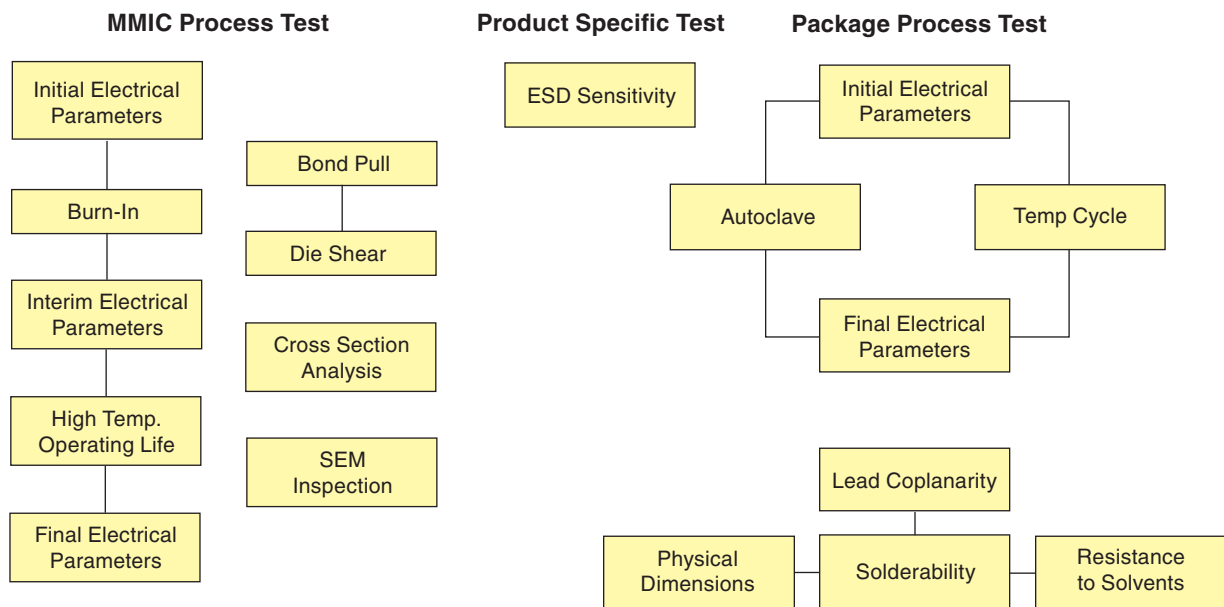


Commercial Standard Product, Qualification & Monitoring Program

Hittite Microwave Corporation implements a continuous qualification & monitoring program to ensure the highest quality levels are achieved and maintained in our high volume production line. The chart below presents Hittite Microwave Corporation’s qualification program, which is implemented when a new MMIC fabrication or assembly process is introduced into our standard high volume manufacturing flow. This program assures our commercial wireless customers of a highly reliable, uninterrupted supply of MMIC product.

Quality Test Reports (QTRs) for each of our standard products can be found in the Quality & Product Support section of our website.



Qualification Test	Test Method	Conditions
Temperature Cycle	JESD22-A104-A	Cond. C, -65 °C to +150 °C, 200 cycles
High Temperature Operating Life HTOL	JESD22-A108-A	Ta= +125 °C, 1000 Hours
ESD	JESD22-A114-A	± 250V HBM
Autoclave	JESD22-A102-B	Cond. C, 121 °C, 100% RH, 96 Hours, 15 PSIG
Lead Coplanarity	JESD22-B108	0.10 mm (0.004 in.)
Physical Dimensions	Opto-Mechanical	Specific Package Outline Drawing
Solderability	JESD22-B102-A	8 Hour Steam Age
Resistance to Solvents	JESD22-B107-A	Alcohol Solvent
Bond Pull	MIL STD-883 Method 2011	Condition D
Die Shear	MIL STD-883 Method 2019	Back Metal, 1X Requirement
SEM Inspection	MIL STD-883 Method 2018	Device Structures and Interconnects
MMIC Cross Section	MIL STD-883 Method 5007	Metal & Dielectric Thickness