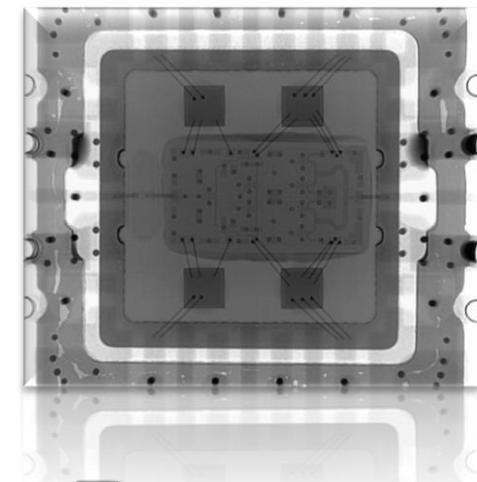
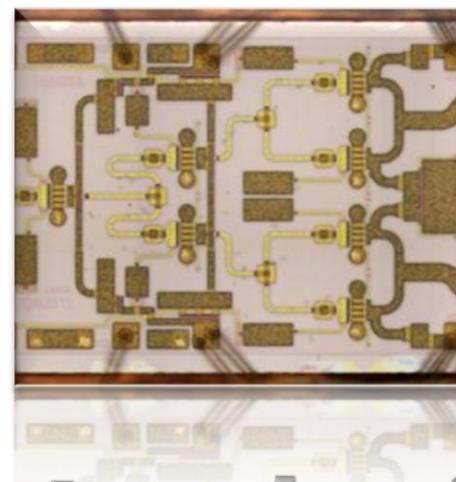
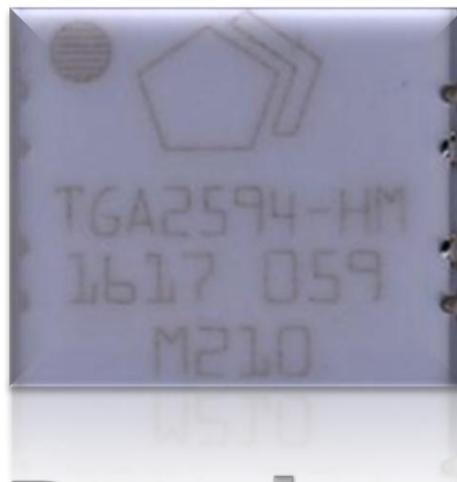




TGA2594-HM

TriQuint 27 to 31 GHz GaN Power Amplifier



Product Analysis Report

This report is protected by copyright and may not be by way of trade or otherwise, be copied, reproduced, re-sold, lent, hired out in any form without express written permission from Shanghai Industrial μTechnology Research Institute(Hereinafter referred to as SITRI).SITRI always endeavors to provide accurate and reliable information to its customers. However, it is not possible to guarantee absolute accuracy of all information contained herein and SITRI can assume no liability for inadvertent errors in this report.

This report was prepared for our Clients' private study, analysis or research and for no other purpose. The information contained in this report may describe technical innovations, which are the subject of patents held by third parties. The disclosure by SITRI of any such information is in no form whatsoever an inducement to infringe any patent. SITRI assumes no liability for patent infringement arising from the use of the information contained in this report.

To Know



Table of Contents

[Table 1 TGA2594-HM Device Summary](#)

[Figure1.1.1 TGA2594-HM Package Scan Photo](#)

[Figure1.2.1 TGA2594-HM Package X-Ray Photo](#)

[Figure1.2.2 TGA2594-HM X-Ray Photo1](#)

[Figure1.2.3 TGA2594-HM X-Ray Photo2](#)

[Figure1.3.1 TGA2594-HM CT Photo-Seal Ring](#)

[Figure1.3.2 TGA2594-HM CT Photo-Layer1](#)

[Figure1.3.3 TGA2594-HM CT Photo-Layer2](#)

[Figure1.3.4 TGA2594-HM CT Photo-Layer3](#)

[Figure2.1.1 TGA2594-HM Lid Back Side OM Photo](#)

[Figure2.2.1 TGA2594-HM Die OM Photo with Lid Removed](#)

[Figure3.1.1 TGA2594-HM Die Photo](#)

[Figure3.2.1 TGA2594-HM Die Corner](#)

[Figure3.3.1 TGA2594-HM Die Mark](#)

[Figure3.4.1 TGA2594-HM Die Pad with Dimensions](#)

[Figure4.1.1 TGA2594-HM Package Wire Bonding SEM Analysis1](#)

[Figure4.1.2 TGA2594-HM Package Wire Bonding SEM Analysis2](#)

[Figure4.1.3 TGA2594-HM Package Wire Bonding SEM Analysis3](#)

[Figure4.1.4 TGA2594-HM Package Wire Bonding SEM Analysis3-1](#)

[Figure4.1.5 TGA2594-HM Package Wire Bonding SEM Analysis3-2](#)

[Figure5.1.1 TGA2594-HM Package Lid SEM Cross Section Analysis1](#)

[Figure5.1.2 TGA2594-HM Package Lid SEM Cross Section Analysis2](#)

[Figure5.1.3 TGA2594-HM Package Lid SEM Cross Section Analysis3](#)

[Figure5.2.1 TGA2594-HM Package Lid SEM Cross Section-EDS Analysis](#)

[Figure5.2.2 TGA2594-HM Package Lid SEM Cross Section-EDS Analysis-Au](#)

[Figure5.2.3 TGA2594-HM Package Lid SEM Cross Section-EDS Analysis-Ni](#)

[Figure5.2.4 TGA2594-HM Package Lid SEM Cross Section-EDS Analysis-Au](#)

[Figure5.2.5 TGA2594-HM Package Lid SEM Cross Section-EDS Analysis-W](#)

[Figure5.2.6 TGA2594-HM Package Lid SEM Cross Section-EDS Analysis-Al/O](#)

[Figure6.1.1 TGA2594-HM Package SEM Cross Section Analysis](#)

[Figure6.1.2 TGA2594-HM Package SEM Cross Section Analysis-Right](#)

[Figure6.1.3 TGA2594-HM Package SEM Cross Section Analysis-Right1](#)

[Figure6.1.4 TGA2594-HM Package SEM Cross Section Analysis-Seal Ring](#)

[Figure6.1.5 TGA2594-HM Package SEM Cross Section Analysis-I/O Finger](#)

[Figure6.1.6 TGA2594-HM Package SEM Cross Section Analysis-Left](#)

[Figure6.1.7 TGA2594-HM Package SEM Cross Section Analysis-Left1](#)

[Figure6.1.8 TGA2594-HM Package SEM Cross Section Analysis-Bottom](#)

[Figure6.1.9 TGA2594-HM Package SEM Cross Section Analysis-Au Ball](#)

[Figure6.1.10 TGA2594-HM Package SEM Cross Section Analysis-Middle](#)

[Figure6.1.11 TGA2594-HM Package SEM Cross Section Analysis-Die](#)

[Figure6.1.12 TGA2594-HM Package SEM Cross Section Analysis-Die Bonding](#)

[Figure6.2.1 TGA2594-HM Package SEM Cross Section-EDS Analysis-Al/O](#)

[Figure6.2.2 TGA2594-HM Package SEM Cross Section-EDS Analysis-W\(Via1\)](#)

[Figure6.2.3 TGA2594-HM Package SEM Cross Section-EDS Analysis-W\(Layer1\)](#)

[Figure6.2.4 TGA2594-HM Package SEM Cross Section-EDS Analysis-W\(Layer2\)](#)

[Figure6.2.5 TGA2594-HM Package SEM Cross Section-EDS Analysis-W\(Via2\)](#)

[Figure6.2.6 TGA2594-HM Package SEM Cross Section-EDS Analysis-Lid Seal Ring](#)

[Figure6.2.7 TGA2594-HM Package SEM Cross Section-EDS Analysis-I/O Finger](#)

[Figure6.2.8 TGA2594-HM Package SEM Cross Section-EDS Analysis-Bottom of Cu Base](#)

[Figure6.2.9 TGA2594-HM Package SEM Cross Section-EDS Analysis-Top of Cu Base](#)

[Figure6.2.10 TGA2594-HM Package SEM Cross Section-EDS Analysis-Au Ball](#)

[Figure6.2.11 TGA2594-HM Package SEM Cross Section-EDS Analysis-Die Bonding Points](#)