

Paratek - BST Tunable RF Capacitor

ON Semiconductor TCP-3027

The first Tunable Capacitor using Paratek technology in WLCSP

Manufactured and sold by ON Semiconductor and based on a Paratek technology the TCP-3027 is a tunable RF capacitor of 2.7pF.

The tunable RF capacitor has a better quality factor (Q) than the standard varactor diode. The TCP-3027 is a passive tunable integrated capacitor (PTIC) packaged in a WLCSP measuring 0.87 x 0.71mm.

The tunability is due to the material called ParaScan™ by Paratek. A Barium Strontium Titanate (BST) doped ceramic is used as a dielectric in the capacitor. The ferroelectric characteristics of the ParaScan™ allows a large variation of the electric constant. Paratek has developed a specific capacitor structure and a DC bias compensation to reduce the parasitic acoustic wave.

This reverse costing report provides an estimation of the production cost of the TCP-3027. It describes the overall manufacturing process and highlights key points of innovation developed by Paratek and ON Semiconductor and a comparison between the products of STMicroelectronics and ON Semiconductor manufactured from Paratek's license .

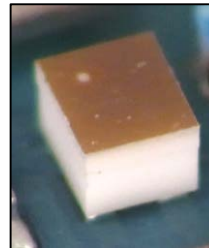
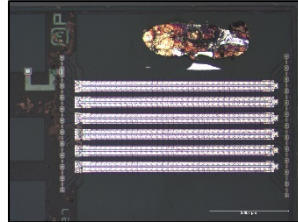
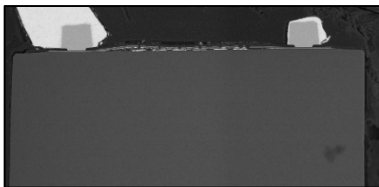


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REVERSE COSTING ANALYSIS

REPORT BY 

Tunable RF Capacitor

86 pages

July 2014

Pdf file

Xls file

PRICE :

Full report: EUR 2,990

Technology report: EUR 1,990

COMPLETE TEARDOWN WITH:

- Comparison of 2 PTIC from **ST Microelectronics** and **ON Semiconductor**
- Detailed Photos and precise Measurements
- Material Analysis
- Manufacturing Process Flow
- Manufacturing Cost Analysis
- Selling Price Estimation

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ORDER FORM

Please process my order for "Paratek – ON Semiconductor TCP-3027" Reverse Costing Analysis:

Ref.: SP14172

Full Reverse Costing report: EUR 2,990*

Technology Analysis report: EUR 1,990**

*For price in dollars please use the day's exchange rate

*All reports are delivered electronically in pdf format

*For French customer, add 20 % for VAT

** Technology Analysis report contains only Physical Analysis & Manufacturing Process Flow

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ABOUT SYSTEM PLUS CONSULTING

System Plus Consulting specializes in the **cost analysis** of electronics, from **semiconductor devices** to **electronic systems**, and has developed a complete range of services and costing tools to provide **in-depth production cost studies** and to estimate the **objective selling price** of a product.

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- ✓ **On demand Reverse Costing studies** are performed on ICs, ASICs, MEMs, Power Devices, ECUs, electronic boards and full electronic systems.
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- ✓ Power Price+ for any power component or module

- ✓ PCB Price+ for printed circuit boards
- ✓ SYS.Cost+ for electronic boards and systems

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Our prices are subject to change.

Please check our new releases and price changes on www.systemplus.fr

The present document is valid 6 months after its publishing date: July 1st, 2014.

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