



Alumina Ceramic Microstrip Lines

Description

We are expanding our ceramics capabilities and opening up the sales of high-speed ceramics. The substrate is comprised of Aluminum Oxide (Al₂O₃) 96% with both the top metal and bottom metal finished in Gold. The devices have embedded Vias to offer good RF performance. The microstrip transmission line is a RF Ground Backed Co-Planer Waveguide (GB-CPW). The metal stack up has been optimized to offer good adhesion for gold bond wire.

Aluminum Wire bondability has not been tested.

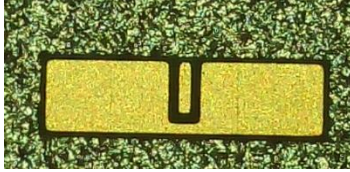
Features

- Low Tan(δ)
- Compact Size
- Embedded Vias to offer smooth surface finish
- Wirebondable
- Gold Finish
- Lead-Free
- RoHS Compliant
- 0.01"/0.254mm thickness

Applications

- Device packaging
- Semi Conductor ICs
- High Speed Devices



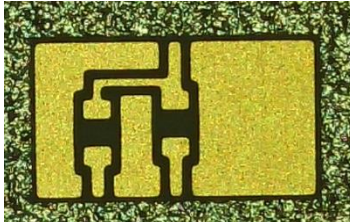


Part # TL-01G

Description

50 Ω GB-CPW with Laser and Photodiode ground pad.

Size: 3.5x1x0.254 mm

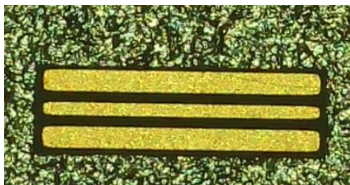


Part # TL-01B

Description

50 Ω GB-CPW Bias-T. The ceramic is designed to except 0201 RLC components.

Size: 3.5x2x0.254 mm

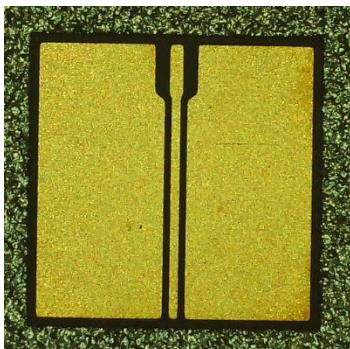


Part # TL-01

Description

50 Ω GB-CPW transmission line.

Size: 3.2x1x0.254 mm



Part # TL-02

Description

50 Ω GB-CPW transmission line. This is designed for hermetic packages that will use 0.01"/0.25mm RF pin to excite the RF field. The transition between the RF pin to the microstrip line has been optimized for low-loss.

Size: 5x5x0.254 mm

We will be expanding our ceramics line. Please check back for updates.



Contact us

Inquiry

For all questions related to our products please feel reach out to inquiry@Nuphotonics.com. We are more than happy to offer custom solutions if needed.

Sales:

For all sales related topics please feel reach out to sales@nuphotonics.com



IMPORTANT NOTICES AND DISCLAIMERS

Warranty: NUPHOTONICS PROVIDES ALL OF THE INFORMATION ON TECHNICAL AND RELIABILITY DATA. THIS INCLUDES INFORMATION PRESENTED IN DATA SHEETS, DESIGN FILES, APPLICATIONS, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD-PARTY INTELLECTUAL PROPERTY RIGHTS.

The information and resources are presented and intended for developers that are skilled and adequately qualified to work with this technology. You, the customer, are solely responsible for and accept full responsibility for selecting the appropriate NuPhotonics devices for your application. You accept the sole responsibility of designing, validating, and testing your application. You bear all responsibility for your application meeting standards, safety, security, and other regulatory requirements.

NuPhotonics retains the right to change these resources without notice. All rights are reserved for NuPhotonics. NuPhotonics grants you permission to use the information in these resources to design with NuPhotonics devices. Reproduction and display of these resources is prohibited. No Third-party licenses are offered. You will fully indemnify NuPhotonics against any claims, damages, costs, losses, and liabilities that arise from you using these resources.

NuPhotonics does not accept and objects to any terms you have proposed.

Definitions: Product status

Alpha Build: Devices in Alpha build are in internal engineering build and testing stages.

Beta Build: Devices in Beta build are for external customers and engineering sample testing stages.

Production Build: Customer ready devices

Copyright © 2023, NuPhotonics LLC