

## GT21 Series

Compact Connector for Coaxial Cable

### FEATURES:

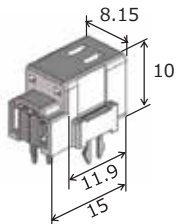
- ▶ Compact design saves space
- ▶ One-step crimp termination provides consistent assembly and reduces the process
- ▶ Excellent high frequency performance up to 2.5GHz
- ▶ Wide Variations
  - Multiple contact positions from 1-4pos.
  - In-line connection type
  - Power line hybrid type

### Compact Design Saves Space

#### Dimensions (Pin-through Hole Type)

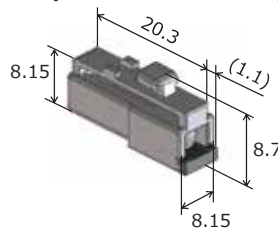
#### Header(PHT Type)

GT21T-1P-DS

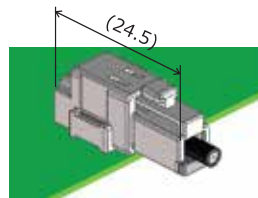


#### Socket

GT21-1S-HU  
(Retainer GT21-1S-R)



#### Mated



#### Size Comparison (PTH)

	Height	Width*	Depth	In mated
GT21	10mm	8.15mm	15mm	24.5mm
FAKRA	10.3mm	9.03mm	22.2mm	39.2mm
% to FAKRA	97%	90%	68%	63%

\* PCB retention portion is not included.

One-step crimp termination provides consistent assembly & reduces the process

#### Assembly step of GT21

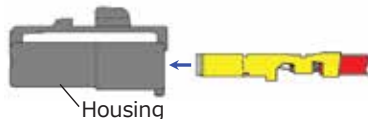
1. Strip the cable



2. Crimp the contact in one action



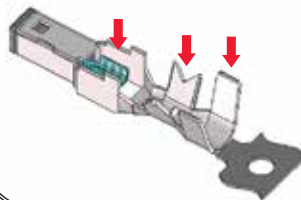
3. Insert the contact into the housing



4. Assemble the retainer and complete



**Allows crimping of the center & outer conductors in one step**  
Cable assembly is finished without touching the center conductor, which provides precise center conductor positioning and consistent operation to all the workers.



### Satisfies Severe Automotive Requirements



Resistant to:

**Shock & Vibration**  
Meets specifications of automotive manufacturers

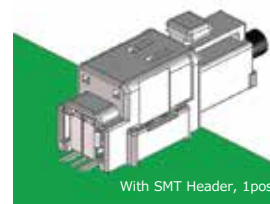
**Thermal Shock**  
1000 cycles  
from -40 to +105°C

**Sulfur Dioxide**

**Heat**  
Up to 105°C

**Humidity**

#### Robust Structures



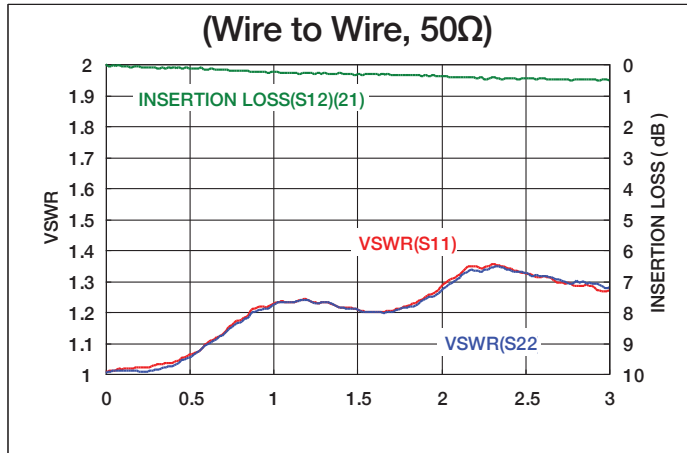
GT21 Series is highly evaluated on its high reliability in automotive market and is employed by major Japanese and overseas automotive manufacturers

- Protected Contact Structure
  - Through Hole Metal Retention Tabs
- improve PCB retention force with pin-in-hole intrusive reflow

# Excellent High frequency performance up to 2.5GHz

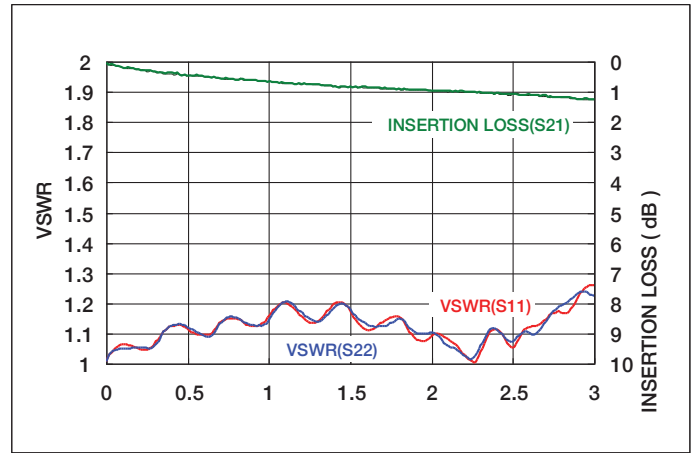
## High Frequency Characteristics Comparison with FAKRA

GT21



FREQUENCY ( GHz )

FAKRA (Supplier A)



FREQUENCY ( GHz )

## Specifications

MATERIAL AND FINISH		
Component	Material	Finish, Remarks
Housing	PBT	UL94HB, Light Gray
Center Conductor	Copper Alloy	Tin plating
Outer Conductor	Copper Alloy	Tin plating
Lock Pin	Copper Alloy	Tin plating
Metal Hold Down	Copper Alloy	Tin plating

PERFORMANCE CHARACTERISTICS	
Rated Current	1A (Signal), 3A (Power)
Rated Voltage	250V DC
Withstanding Voltage	500V AC, for 1 minute
Insulation Resistance	100MΩ Min. (500V DC)
Operating Temperature Range	-30 to +105°C
Mating Durability	30 times

Supports RoHS and ELV



For additional information please go to  
<https://www.hirose.com/product/series/GT21>  
 Specifications herein are subject to change without notice.  
 Contact Hirose for latest specifications, drawings, or availabilities.

