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OMRON ELECTRONIC COMPONENTS LLC
PRODUCT, MARKETING, AND BUSINESS NEWS

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PRODUCT: G9YA HF Switching Relays TYPE: Product Release

## G9YA Coaxial HF Relay, Rated to 26.5 GHz, Meets Needs of Mobile Communications and Broadcast Infrastructure

Omron's new G9YA HF relay with coaxial connector opens sales opportunities across the entire bandwidth ( 1 to 26.5 GHz ) by providing outstanding high-frequency performance and offering the lowest power consumption on the market. The race to revitalize wireless communication infrastructure will generate significant interest in G9YA.

## Key Features and Benefits

- Superior high-frequency characteristics,
 such as an isolation of 60 dB min., insertion loss of 0.8 dB max., and $V$.SWR of 1.7 max. at 26.5 $\mathrm{GHz}(50 \Omega)$.
- Three relay function types: Failsafe, Dual Coil Latching and TTL-driven dual coil latching
- Capable of carrying up to $\mathbf{1 2 0} \mathbf{W}$ of power at 3 GHz while operating within an ambient temperature range of $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
- Lowest coil power consumption switch in the world: At 700 mW (Failsafe) and 500 mW (Dual Coil Latching and TTL-Driven Dual Coil Latching).
- Long service life ( 5 million operations minimum) at $3 \mathrm{GHz}, 5 \mathrm{~W}$, resistive load

■ Wide choice of terminations: Solder Terminals, Pin Terminals and Connector Cables.

- RoHS compliant


## Typical Applications

- Mobile phone stations and antenna devices
- Wireless devices, wireless LAN, and disaster prevention wireless
- Test equipment, measuring equipment, and jigs
- Broadcasting facilities (digital TV, cable TV, and satellite broadcasting)


## Literature Support

The G9YA data sheet provides complete specifications and shows the full range of part numbers. It is available in PDF format on Omron's www.components.omron.com website in the Document Library. Just type G9YA into the search engine.

## Competition

Major US competitors with strong offerings of coaxial HF relays include Agilent, Teledyne, and DowKey. The overview below shows the global market players and their relative strengths and weaknesses.

| C om petitor | M atsushita | H irose | HitachiD enshi <br> Technosystem s | S anyu | KM W |
| :--- | :--- | :--- | :--- | :--- | :--- |
| V aration num ber | Sm all | Sm all | Large | M edium | m edium |
| Price | M iddle | H igh | Low | H igh | Low |
| D elivery | Short | M iddle | Short | M iddle | M iddle |
| Q uality | G ood | G ood | Bad | Bad | M iddle |
| Spec | H igh | Low | Low | Low | M iddle |
| Service | Good | G ood | M iddle | M iddle | Bad |
| Feature |  | C onnecterm aker |  | Reed sw itch | Korean |




The following pages provide detailed feature comparisons among the competitors.





