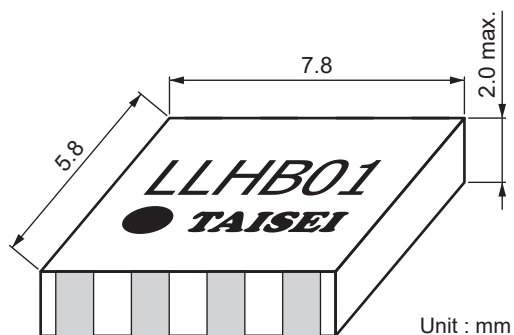




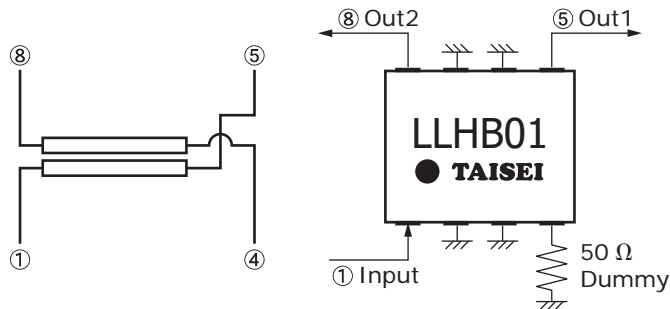
LLHB

LLHB6801-0200-G (200MHz:170~230MHz)

Configuration, Dimensions



Schematics



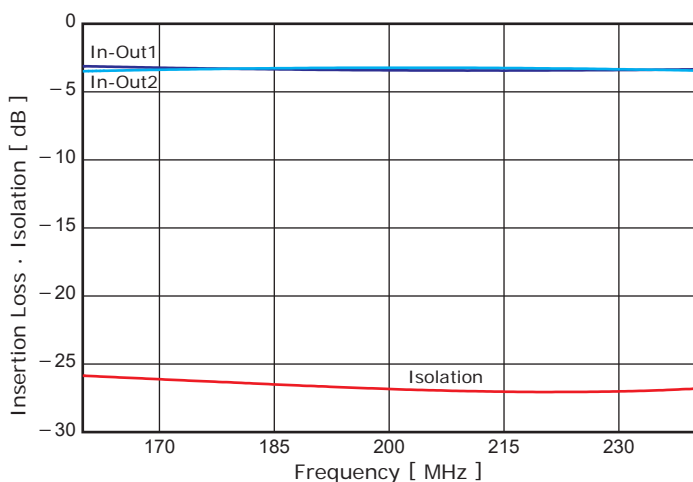
- ① Input Port
- ②,③ GND
- ④ Termination
- ⑤ Out1 Port (-90 deg.)
- ⑥,⑦ GND
- ⑧ Out2 Port (0 deg.)

Specification

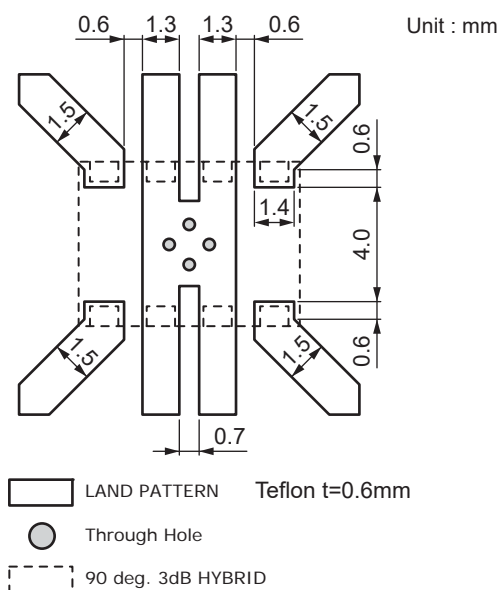
Style No.	Insertion Loss [dB]	Isolation [dB]	Amplitude Balance [dB]	Phase Balance [deg.]	VSWR	Max. Input Power [W]
LLHB6801-0200-G	3.6 max.	20.0 min.	0.5 max.	90 ± 3	1.2 max.	5 max.

- * Operating Temperature Range -40 ~ +85 °C
- * This Products is made with RoHS.

Typical Performance



Recommendable Footprint



Specifications of products are subject to change without notice.

e-llhb6801-0200-g-09



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<< Kansai Branch >> 3-18-9, Nishi-Nakajima, Yodogawa-ku, Osaka-City, 532-0011, Japan.

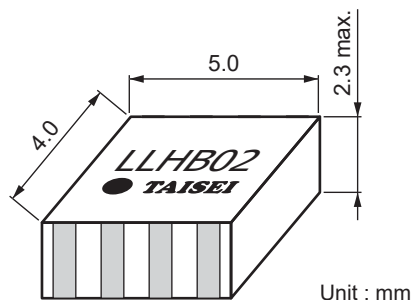
PHONE : 81-6-6390-7264 FAX : 81-6-6390-6945



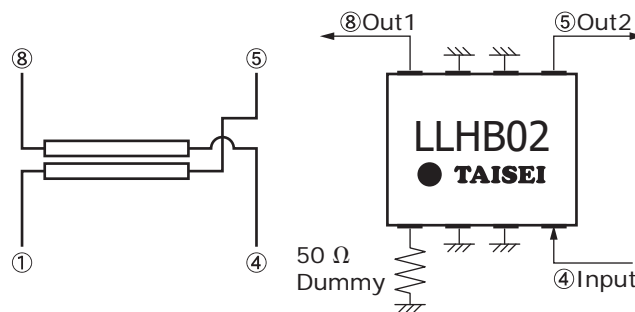
LLHB

LLHB5402-0665-G (665MHz:470~860MHz)

Configuration, Dimensions



Schematics



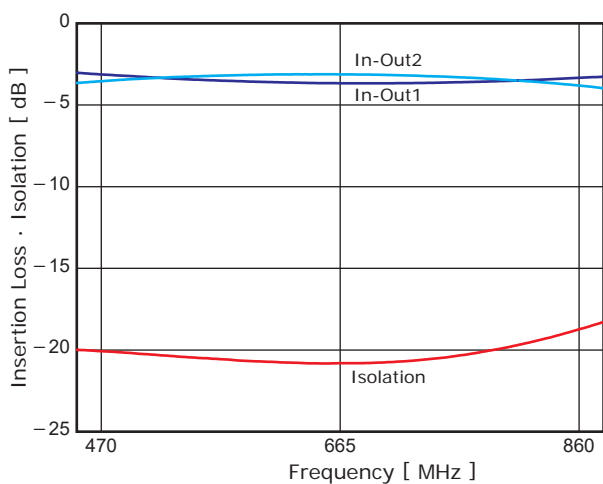
- ① Termination ⑤ Out2 Port (0 deg.)
- ②,③ GND ⑥,⑦ GND
- ④ Input Port ⑧ Out1 Port (-90 deg.)

Specification

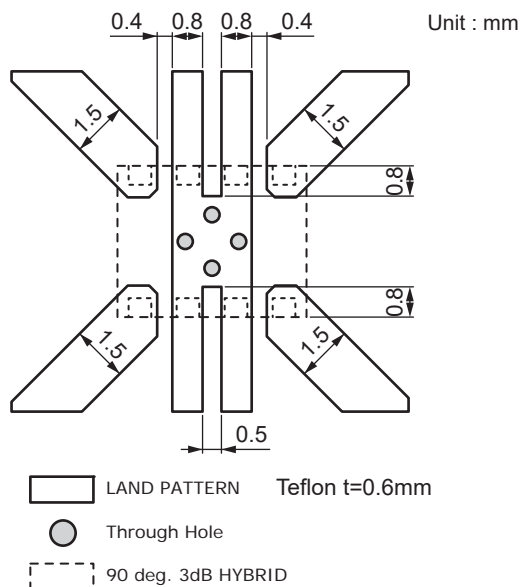
Style No.	Insertion Loss [dB]	Isolation [dB]	Amplitude Balance [dB]	Phase Balance [deg.]	VSWR	Max. Input Power [W]
LLHB5402-0665-G	3.2 ± 1	15.0 min.	1.0 max.	90 ± 3	1.7 max.	3 max.

- * Operating Temperature Range -40 ~ +85 °C
- * This Products is made with RoHS.

Typical Performance



Recommendable Footprint



Specifications of products are subject to change without notice.

e-llhb5402-0665-g-11



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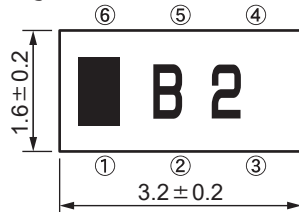


LLHB

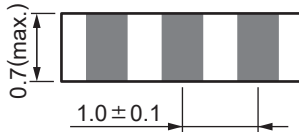
EIA SIZE 1206 LLHB31B2-1475-G (1425~1525MHz)

Dimensions / Schematics

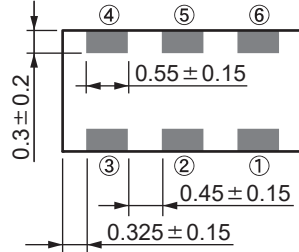
Top View



Side View



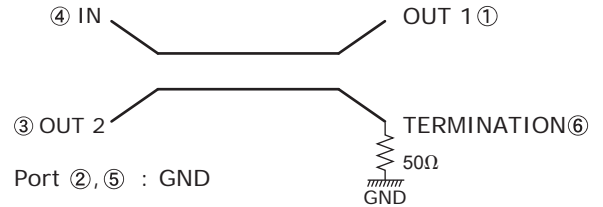
Bottom View



Unit : mm

- ① OUT 1 ④ IN
- ② GND ⑤ GND
- ③ OUT 2 ⑥ TERMINATION

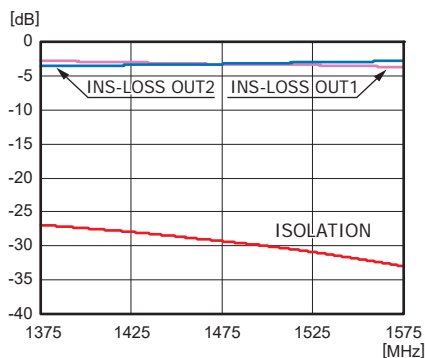
*1: This Product is made with RoHS.



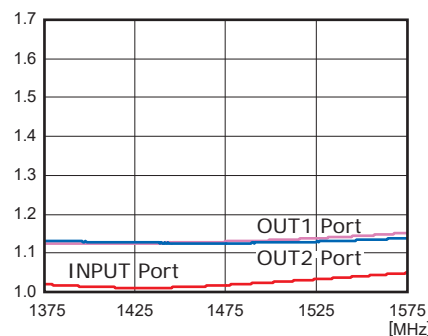
*2: The termination resistor in 50 ohm does not reside in this hybrid.

Transmission / VSWR / Phase Data

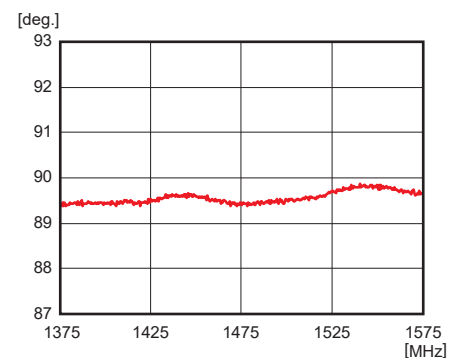
Transmission



VSWR



Phase

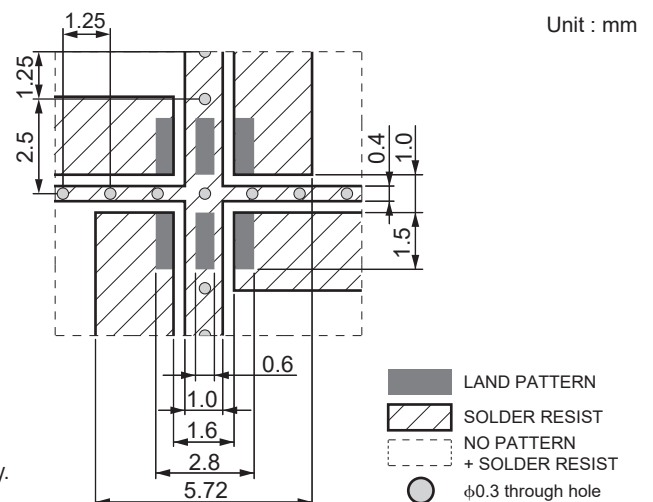


Specification

Style No.	LLHB31B2-1475-G
Frequency Range	1425 ~ 1525 MHz
Nominal In/Out Z ₀	50Ω
Insertion Loss	4.0 dB max.
Isolation	15 dB min.
Amplitude Balance	1.0 dB max.
Phase Deviation	90 ± 3 deg.
In / Out VSWR	1.5 max.
Max. Input Power	3 W
Working Temp. Range	-40 ~ +85 °C

The frequency range shown above is just an example, but the frequency bandwidth can be complied on a custom basis. Please consult with us, if any.

Recommended Pad Size



Unit : mm

- LAND PATTERN
- SOLDER RESIST
- NO PATTERN
- + SOLDER RESIST
- φ0.3 through hole

Specifications of products are subject to change without notice.

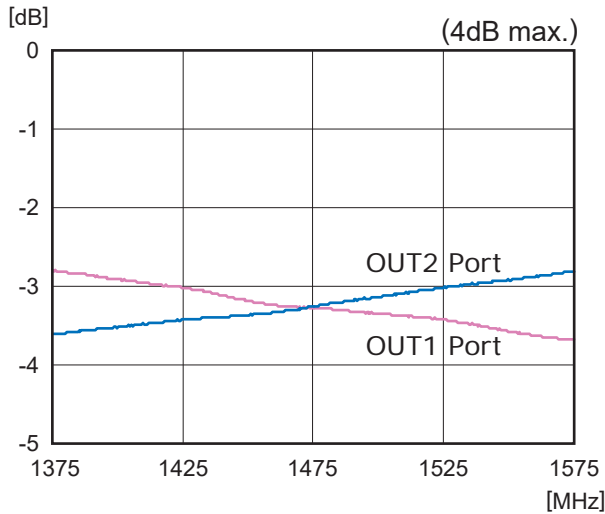
e-llhb31B2-1475-p01-11



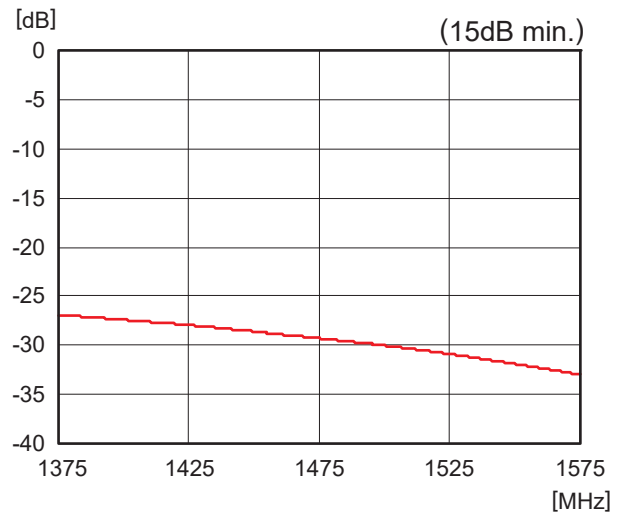
LLHB EIA SIZE 1206 LLHB31B2-1475-G (1425~1525MHz)

Typical Performance

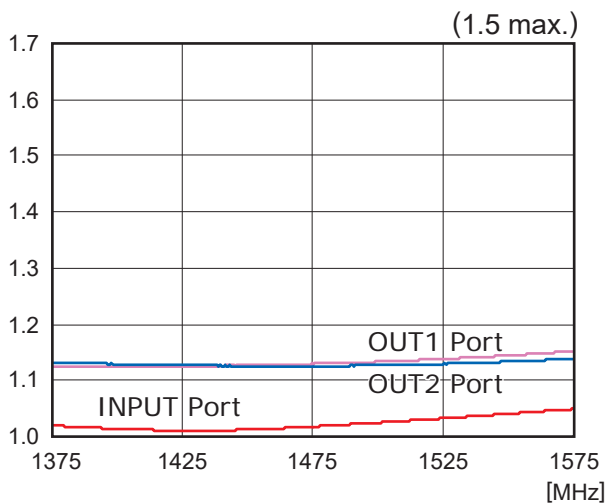
Insertion-Loss Data



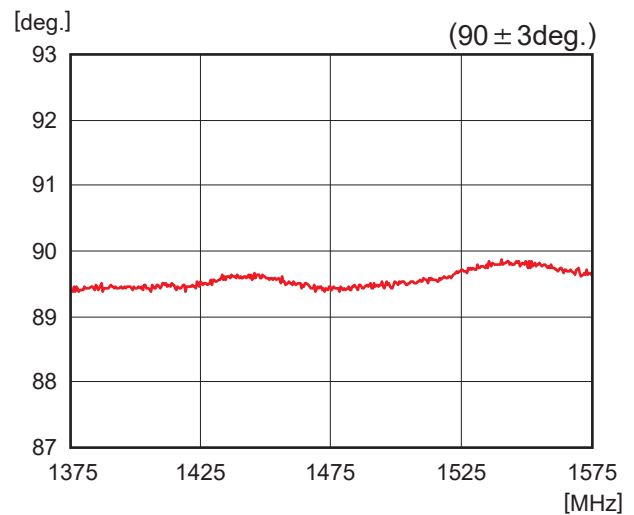
Isolation Data



VSWR Data



Phase Data



Specifications of products are subject to change without notice.

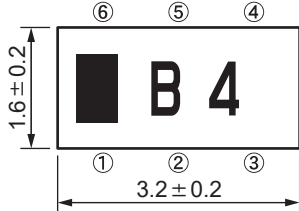




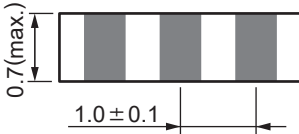
LLHB EIA SIZE 1206 LLHB31B4-1915-G (1850~1980MHz)

Dimensions / Schematics

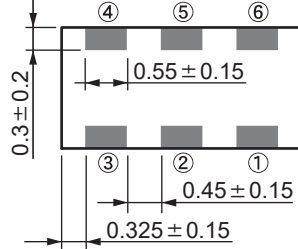
Top View



Side View



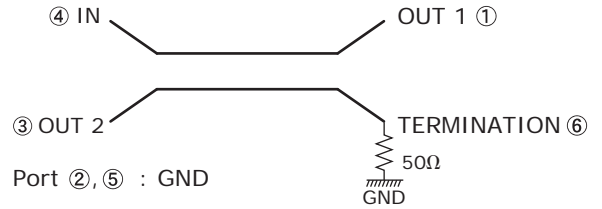
Bottom View



Unit : mm

- ① OUT 1 ④ IN
- ② GND ⑤ GND
- ③ OUT 2 ⑥ TERMINATION

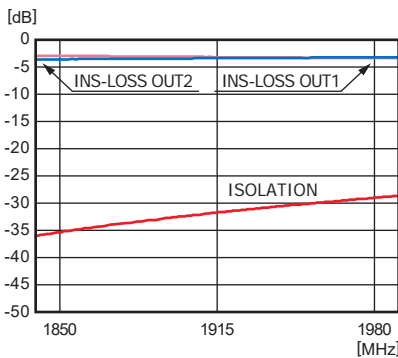
*1: This Product is made with RoHS.



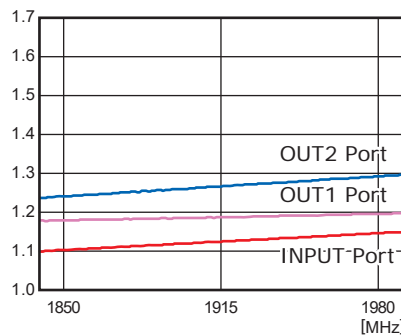
*2: The termination resistor in 50 ohm does not reside in this hybrid.

Transmission / VSWR / Phase Data

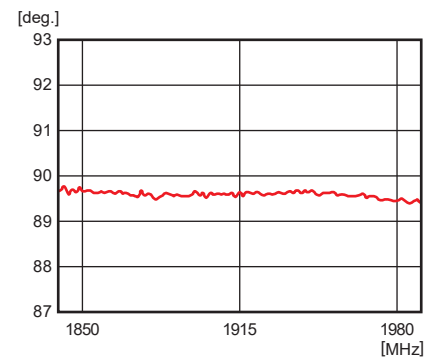
Transmission



VSWR



Phase

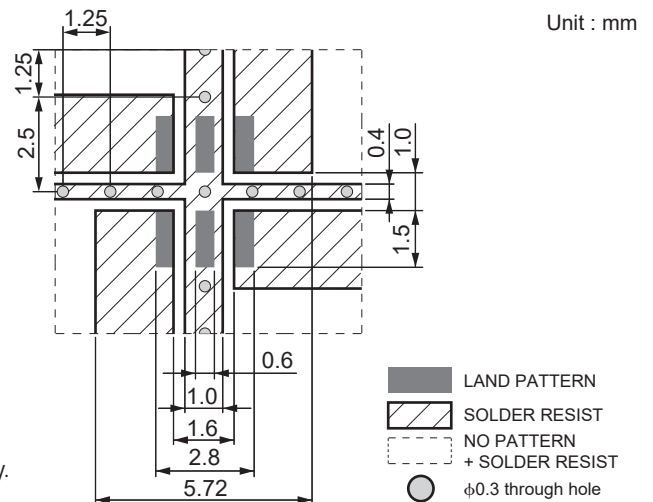


Specification

Style No.	LLHB31B4-1915-G
Frequency Range	1850 ~ 1980 MHz
Nominal In/Out Z ₀	50Ω
Insertion Loss	4.0 dB max.
Isolation	15 dB min.
Amplitude Balance	1.0 dB max.
Phase Deviation	90 ± 3 deg.
In / Out VSWR	1.5 max.
Max. Input Power	3 W
Working Temp. Range	-40 ~ +85 °C

The frequency range shown above is just an example, but the frequency bandwidth can be complied on a custom basis. Please consult with us, if any.

Recommended Pad Size



- LAND PATTERN
- SOLDER RESIST
- NO PATTERN
- + SOLDER RESIST
- φ0.3 through hole

Specifications of products are subject to change without notice.

e-llhb31B4-1915-p01-10



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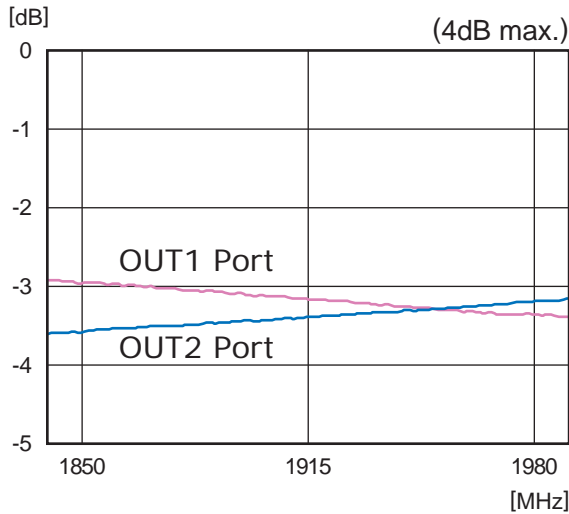
<< Head Office >> 3-10-8, Nohagi 1st Bldg, Minami-Ikebukuro, Toshima-ku, Tokyo, 171-0022, Japan.
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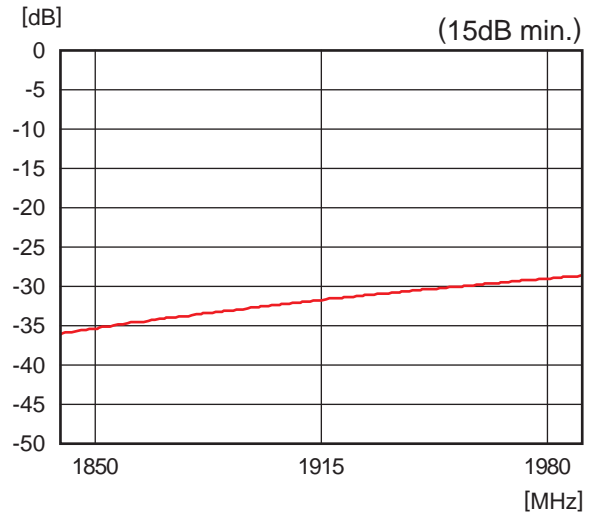
LLHB EIA SIZE 1206 LLHB31B4-1915-G (1850~1980MHz)

Typical Performance

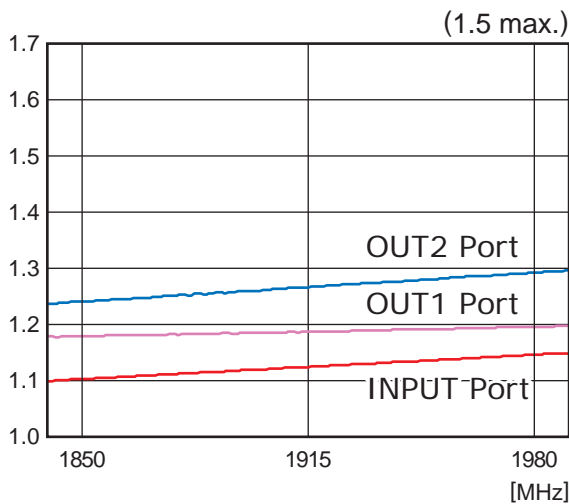
Insertion-Loss Data



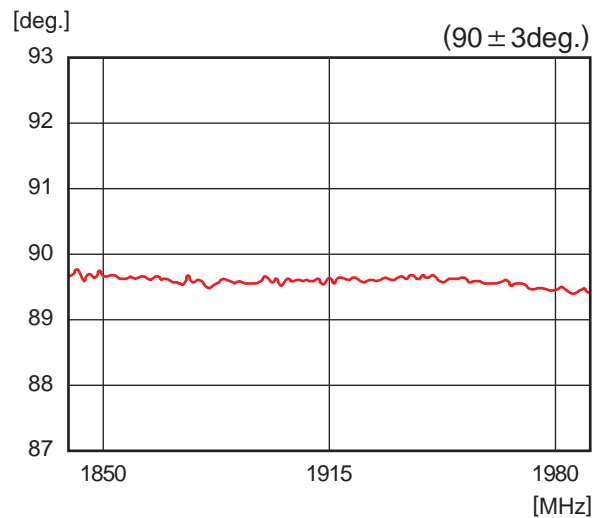
Isolation Data



VSWR Data



Phase Data



Specifications of products are subject to change without notice.

llhb31b4-1915_diagram-p01-07



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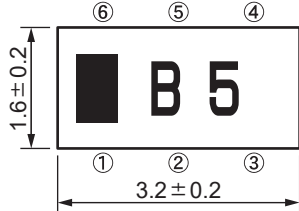
<http://www.mkt-taisei.co.jp/>



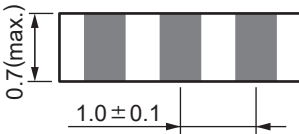
LLHB EIA SIZE 1206 LLHB31B5-2150-G (2100~2200MHz)

Dimensions / Schematics

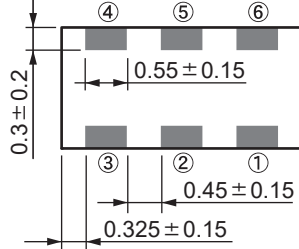
Top View



Side View



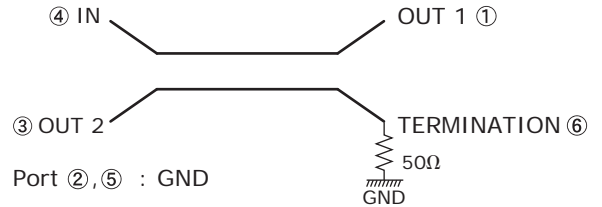
Bottom View



Unit : mm

- ① OUT 1 ④ IN
- ② GND ⑤ GND
- ③ OUT 2 ⑥ TERMINATION

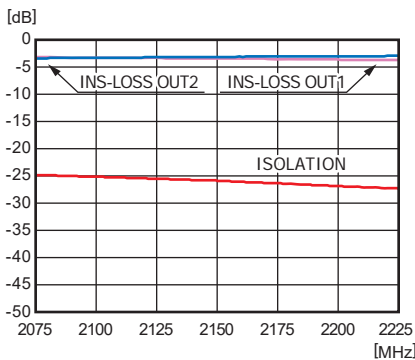
*1: This Product is made with RoHS.



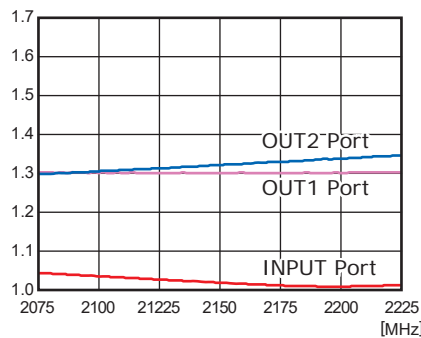
*2: The termination resistor in 50 ohm does not reside in this hybrid.

Transmission / VSWR / Phase Data

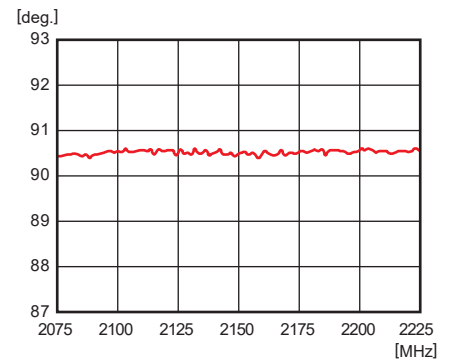
Transmission



VSWR



Phase

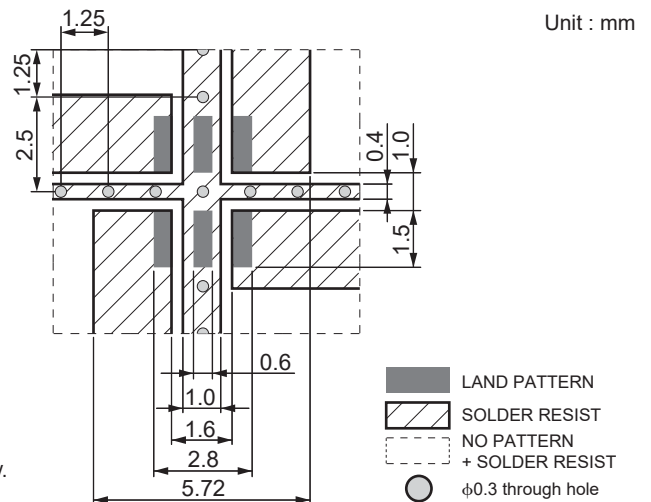


Specification

Style No.	LLHB31B5-2150-G
Frequency Range	2100 ~ 2200 MHz
Nominal In/Out Zo	50Ω
Insertion Loss	4.0 dB max.
Isolation	15 dB min.
Amplitude Balance	1.0 dB max.
Phase Deviation	90 ± 3 deg.
In / Out VSWR	1.5 max.
Max. Input Power	3 W
Working Temp. Range	-40 ~ +85 °C

The frequency range shown above is just an example, but the frequency bandwidth can be compiled on a custom basis. Please consult with us, if any.

Recommended Pad Size



Specifications of products are subject to change without notice.

e-llhb31B5-2150-p01-10



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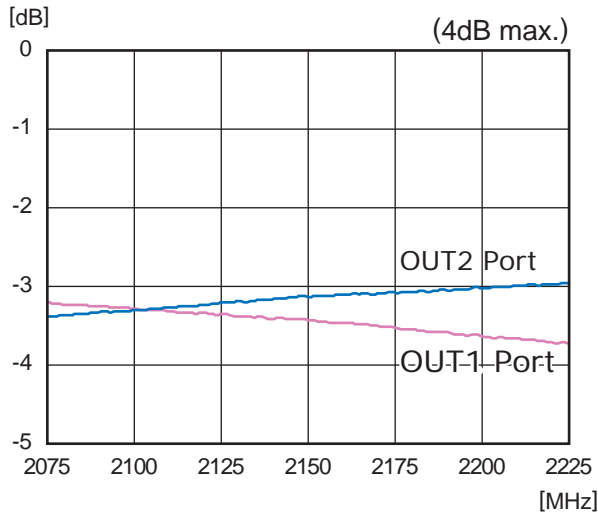
PHONE : 81-6-6390-7264 FAX : 81-6-6390-6945



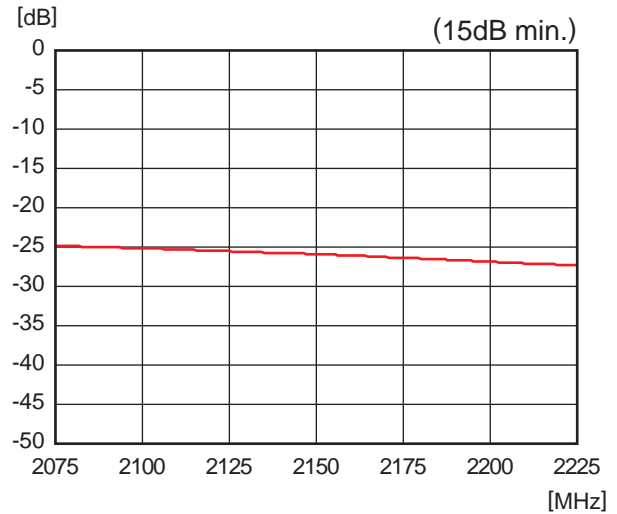
LLHB EIA SIZE 1206 LLHB31B5-2150-G (2100~2200MHz)

Typical Performance

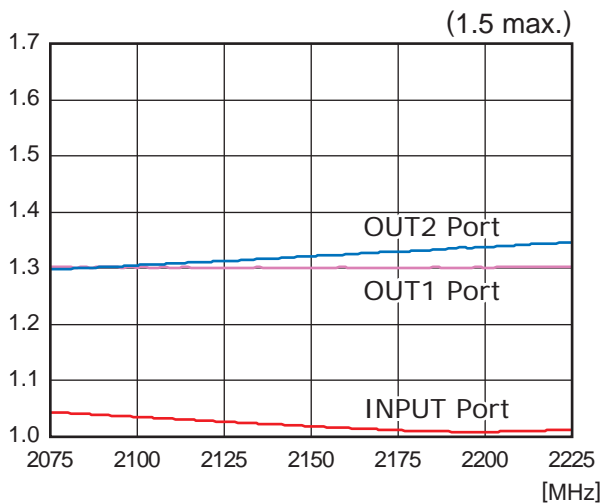
Insertion-Loss Data



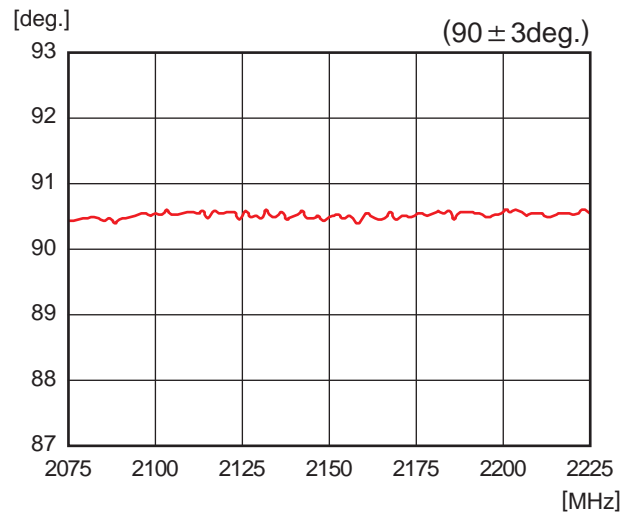
Isolation Data



VSWR Data



Phase Data



Specifications of products are subject to change without notice.

llhb31b5-2150_diagram-p01-07



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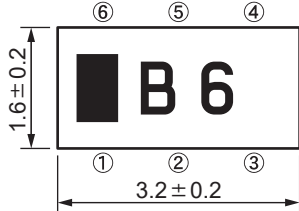
<http://www.mkt-taisei.co.jp/>



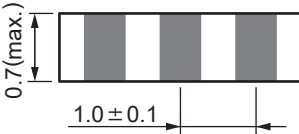
LLHB EIA SIZE 1206 LLHB31B6-2450-G (2400~2500MHz)

Dimensions / Schematics

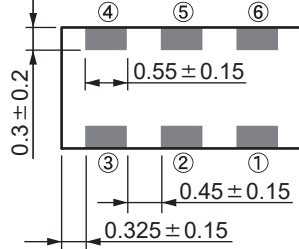
Top View



Side View



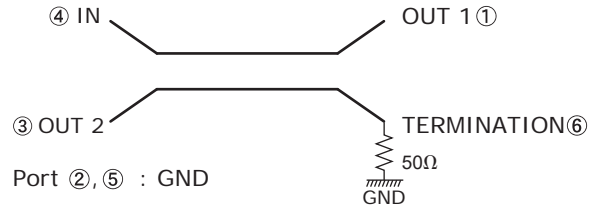
Bottom View



Unit : mm

- ① OUT 1 ④ IN
- ② GND ⑤ GND
- ③ OUT 2 ⑥ TERMINATION

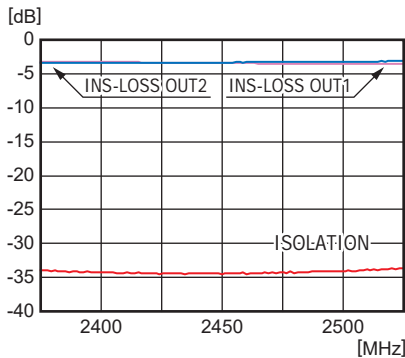
*1: This Product is made with RoHS.



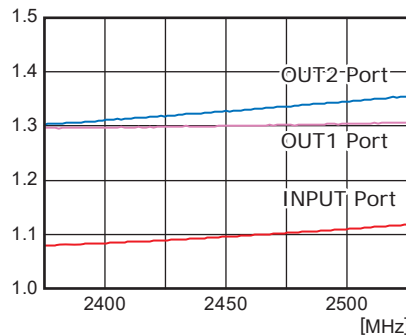
*2: The termination resistor in 50 ohm does not reside in this hybrid.

Transmission / VSWR / Phase Data

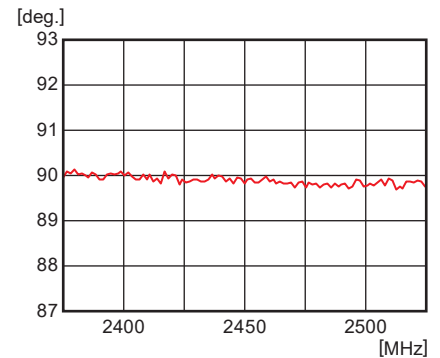
Transmission



VSWR



Phase

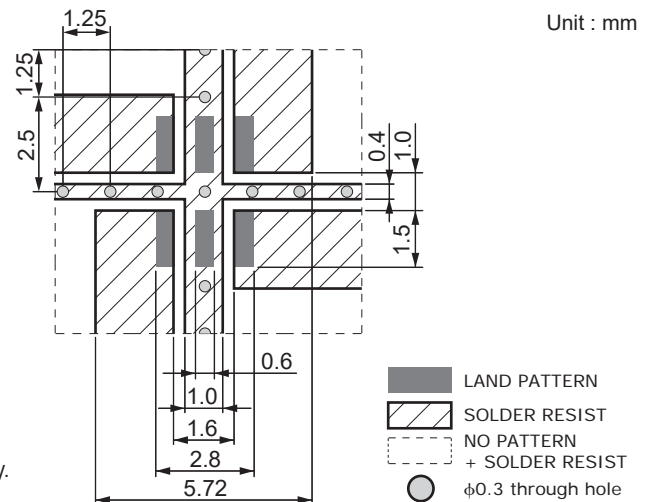


Specification

Style No.	LLHB31B6-2450-G
Frequency Range	2400 ~ 2500 MHz
Nominal In/Out Z ₀	50Ω
Insertion Loss	4.0 dB max.
Isolation	15 dB min.
Amplitude Balance	1.0 dB max.
Phase Deviation	90 ± 3 deg.
In / Out VSWR	1.5 max.
Max. Input Power	3 W
Working Temp. Range	-40 ~ +85 °C

The frequency range shown above is just an example, but the frequency bandwidth can be complied on a custom basis. Please consult with us, if any.

Recommended Pad Size



Specifications of products are subject to change without notice.

e-llhb31B6-2450-p01-14



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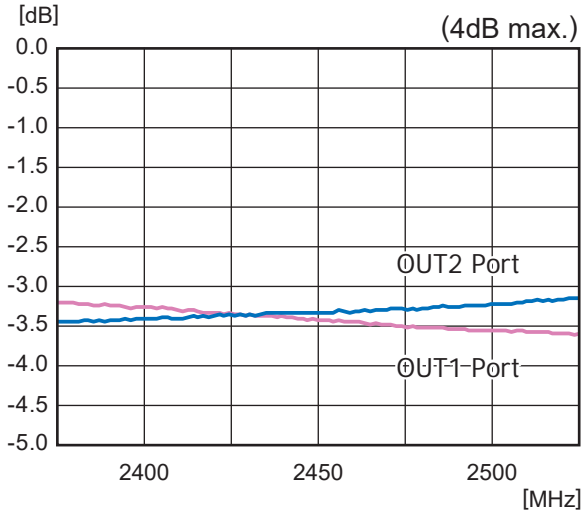
PHONE : 81-6-6390-7264 FAX : 81-6-6390-6945



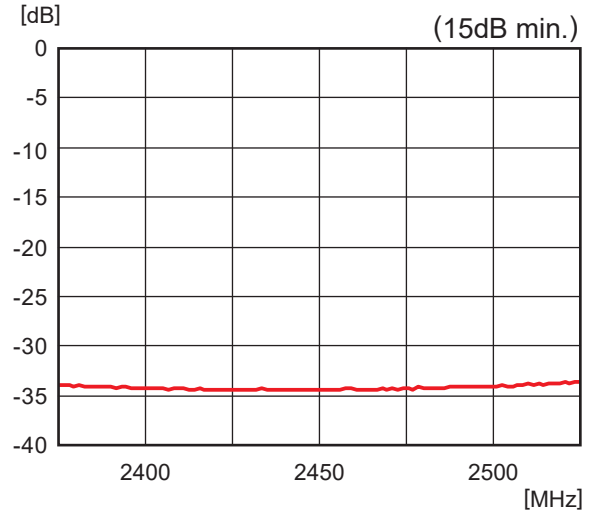
LLHB EIA SIZE 1206 LLHB31B6-2450-G (2400~2500MHz)

Typical Performance

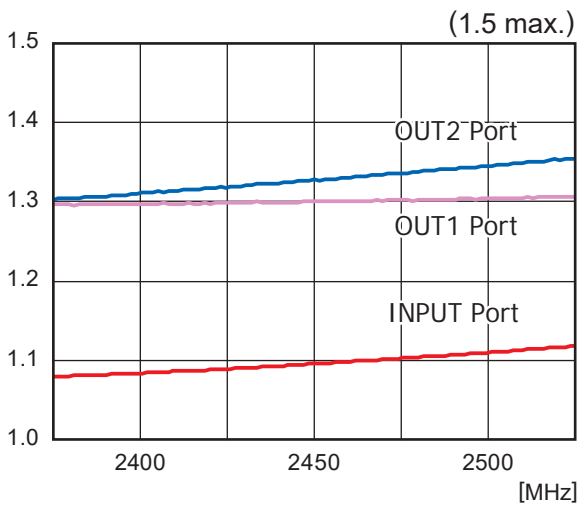
Insertion-Loss Data



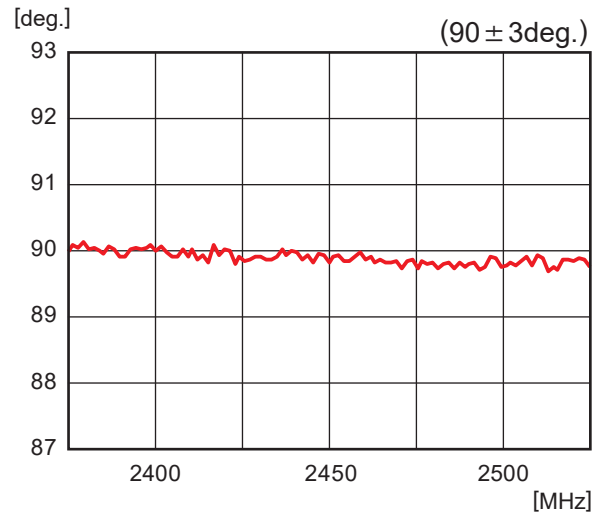
Isolation Data



VSWR Data



Phase Data



Specifications of products are subject to change without notice.

e-llhb31b6-2450_diagram-p01-07



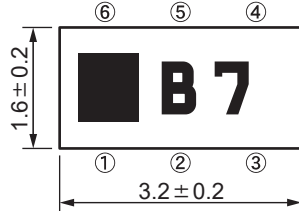


LLHB

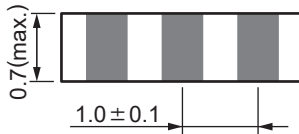
EIA SIZE 1206 LLHB31B7-2600-G (2500~2700MHz)

Dimensions / Schematics

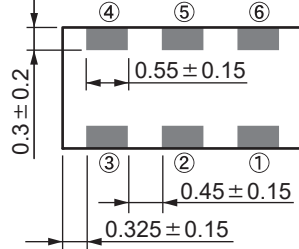
Top View



Side View



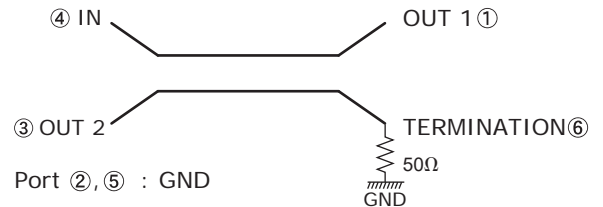
Bottom View



Unit : mm

- ① OUT 1 ④ IN
 ② GND ⑤ GND
 ③ OUT 2 ⑥ TERMINATION

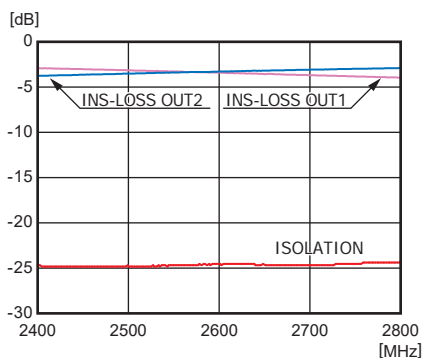
*1: This Product is made with RoHS.



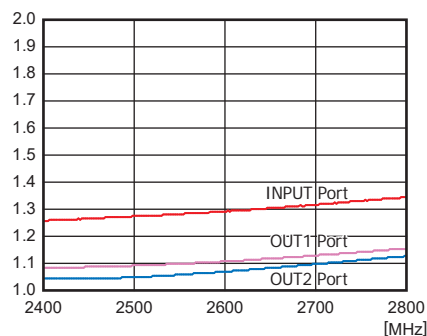
*2: The termination resistor in 50 ohm does not reside in this hybrid.

Transmission / VSWR / Phase Data

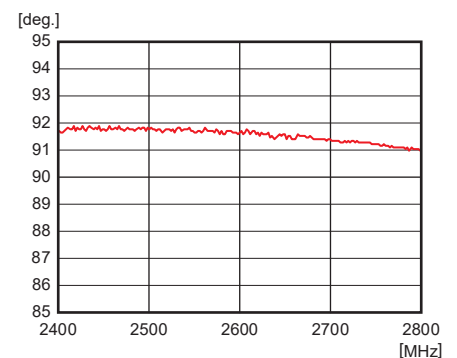
Transmission



VSWR



Phase

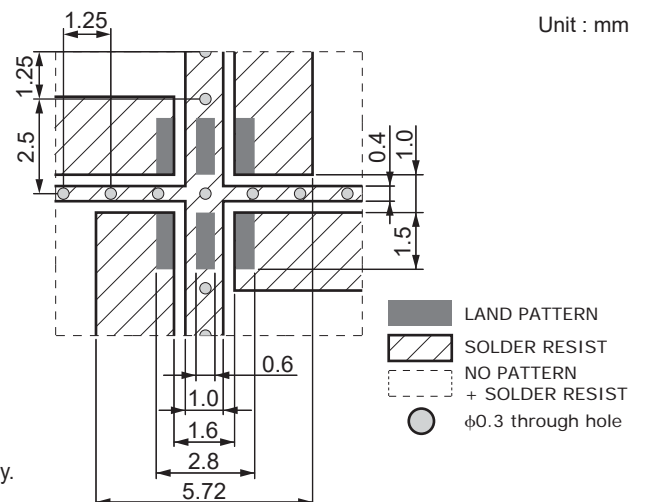


Specification

Style No.	LLHB31B7-2600-G
Frequency Range	2500 ~ 2700 MHz
Nominal In/Out Z ₀	50Ω
Insertion Loss	4.0 dB max.
Isolation	15 dB min.
Amplitude Balance	1.0 dB max.
Phase Deviation	90 ± 3 deg.
In / Out VSWR	1.5 max.
Max. Input Power	3 W
Working Temp. Range	-40 ~ +85 °C

The frequency range shown above is just an example, but the frequency bandwidth can be complied on a custom basis. Please consult with us, if any.

Recommended Pad Size



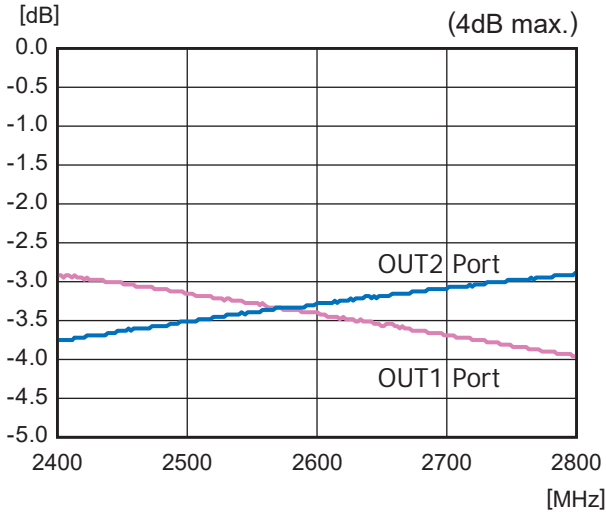
Unit : mm



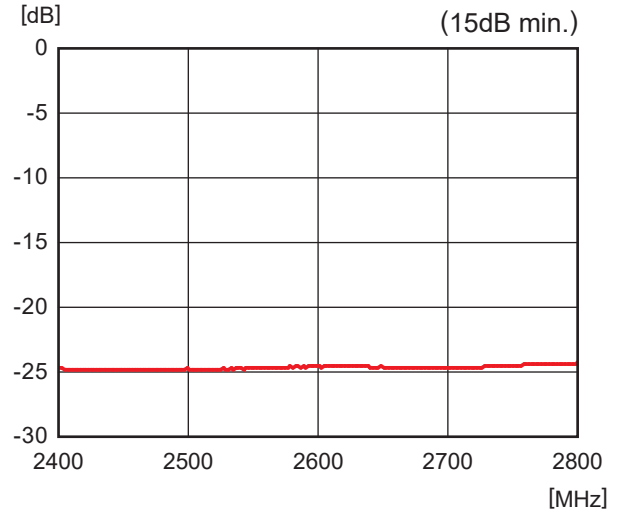
LLHB EIA SIZE 1206 LLHB31B7-2600-G (2500~2700MHz)

Typical Performance

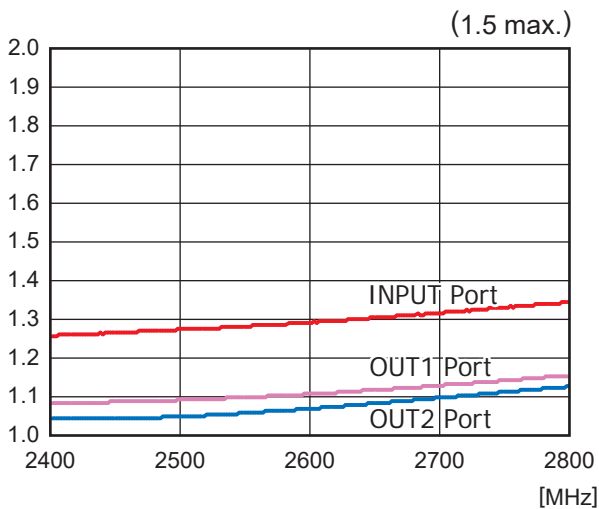
Insertion-Loss Data



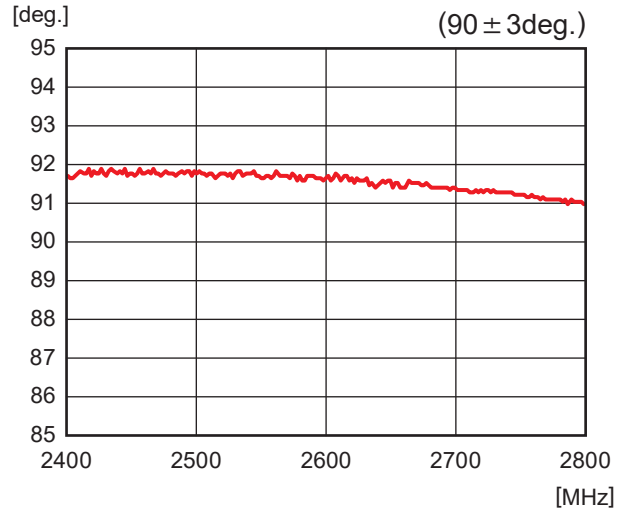
Isolation Data



VSWR Data



Phase Data



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