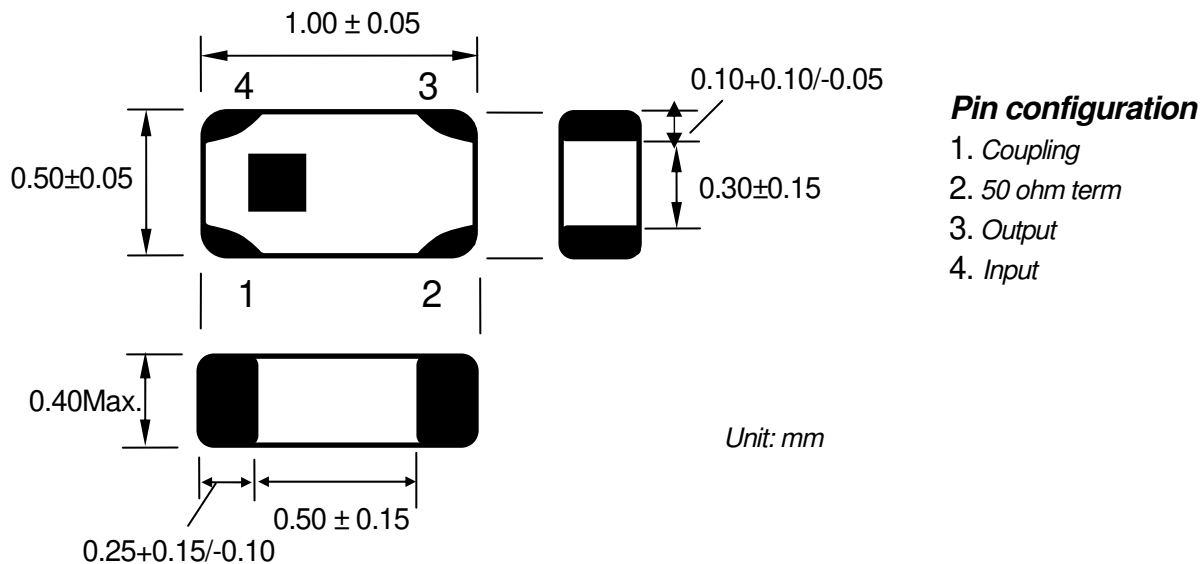


# MULTILAYER DIRECTIONAL COUPLER SPECIFICATION

P/N: **HHM2910E1**

## [MECHANICAL DIMENSIONS]



## ELECTRICAL CHARACTERISTICS

| Frequency | Coupling   | Ins.Loss(1) | Ins.Loss(2) | Isolation | VSWR     |
|-----------|------------|-------------|-------------|-----------|----------|
| 1710-1755 | 21.2+/-1.0 | 0.22 Max.   | 0.25 Max.   | 34 Min.   | 1.4 Max. |
| 1750-1980 | 20.5+/-1.0 | 0.22 Max.   | 0.25 Max.   | 34 Min.   | 1.4 Max. |
| 1980-2025 | 19.9+/-1.0 | 0.22 Max.   | 0.25 Max.   | 34 Min.   | 1.4 Max. |
| MHz       | dB         | dB          | dB          | dB        |          |

Ins. Loss(1):at 25 degree

Ins.Loss(2):at Operating Temperature

## TEMPERATURE RANGE

Storage Temperature : -40 ~ +85 °C

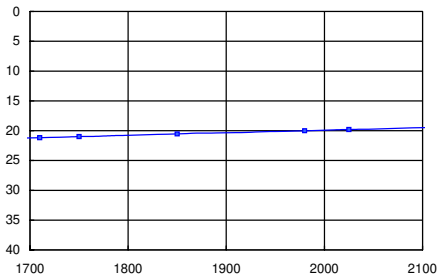
Operating Temperature : -40 ~ +85 °C

[FREQUENCY CHARACTERISTICS]

HHM2910E1

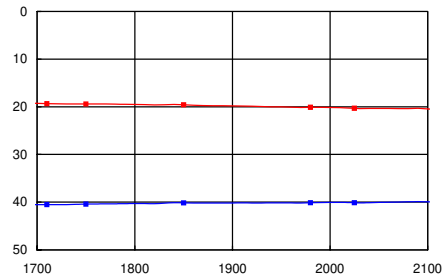
Sample data

**Coupling**



|          |         |
|----------|---------|
| 1710 MHz | 21.2 dB |
| 1750 MHz | 21.0 dB |
| 1850 MHz | 20.6 dB |
| 1980 MHz | 20.0 dB |
| 2025 MHz | 19.8 dB |

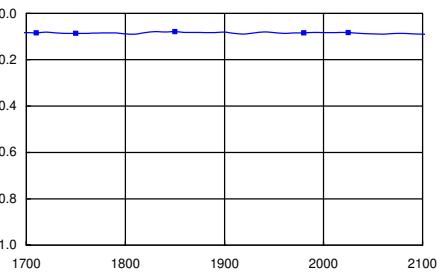
**Isolation&Directivity**



| Frequency (MHz) | Isolation (dB) |
|-----------------|----------------|
| 1710 MHz        | 40.5 dB        |
| 1750 MHz        | 40.4 dB        |
| 1850 MHz        | 40.2 dB        |
| 1980 MHz        | 40.1 dB        |
| 2025 MHz        | 40.1 dB        |

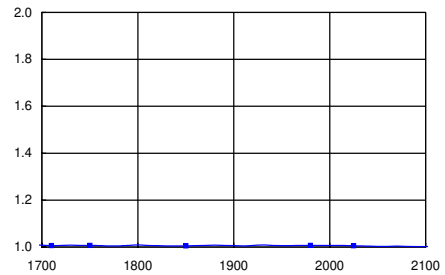
| Frequency (MHz) | Directivity (dB) |
|-----------------|------------------|
| 1710 MHz        | 19.3 dB          |
| 1750 MHz        | 19.4 dB          |
| 1850 MHz        | 19.6 dB          |
| 1980 MHz        | 20.1 dB          |
| 2025 MHz        | 20.3 dB          |

**Insertion Loss**



|          |         |
|----------|---------|
| 1710 MHz | 0.08 dB |
| 1750 MHz | 0.09 dB |
| 1850 MHz | 0.08 dB |
| 1980 MHz | 0.08 dB |
| 2025 MHz | 0.08 dB |

**VSWR**



|          |      |
|----------|------|
| 1710 MHz | 1.01 |
| 1750 MHz | 1.01 |
| 1850 MHz | 1.01 |
| 1980 MHz | 1.01 |
| 2025 MHz | 1.01 |

[RECOMMENDED LANDPATTERN]

