

75Ω 16dB Directional Couplers5-1250MHz

Features:

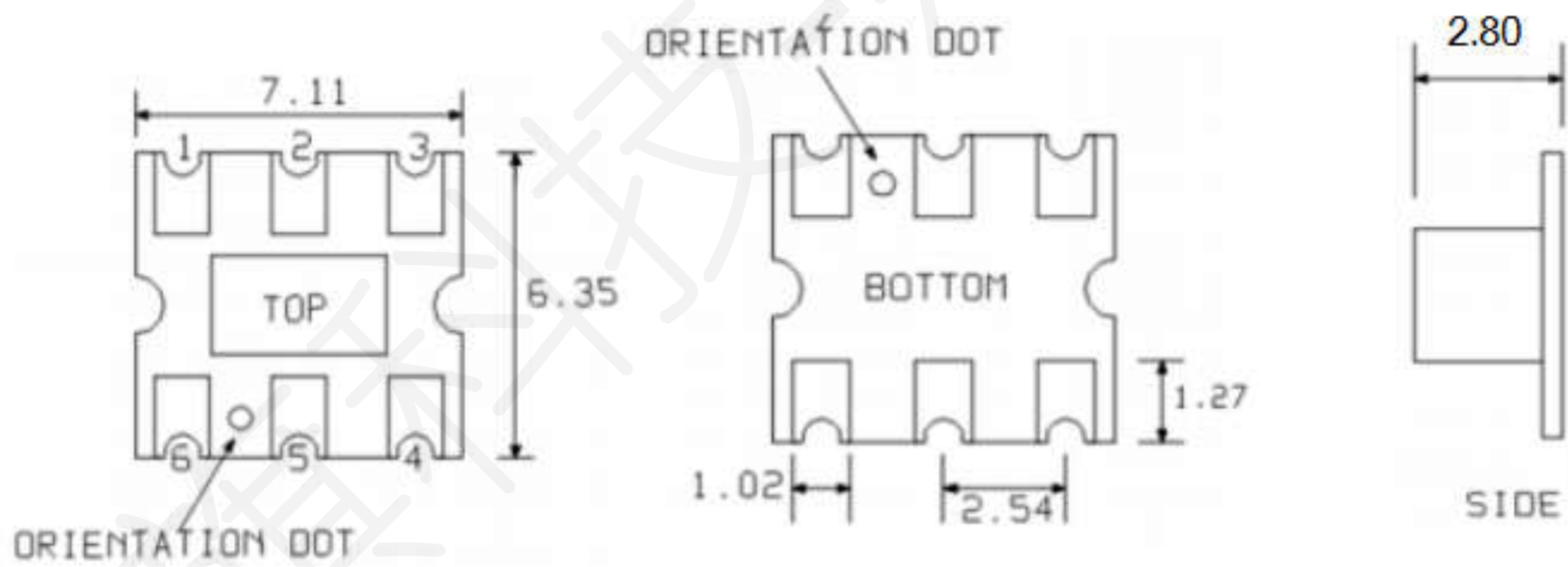


- ◆Frequency Range: 5 to 1250 MHz
- ◆Surface mout and available in tape and reel
- ◆260℃ reflow compatible
- ◆RoHS Compliant and Pb free
- ◆Operating temperature range: -20℃ to +85℃
- ◆Storage temperature range: -55℃ to +100℃

Applications:

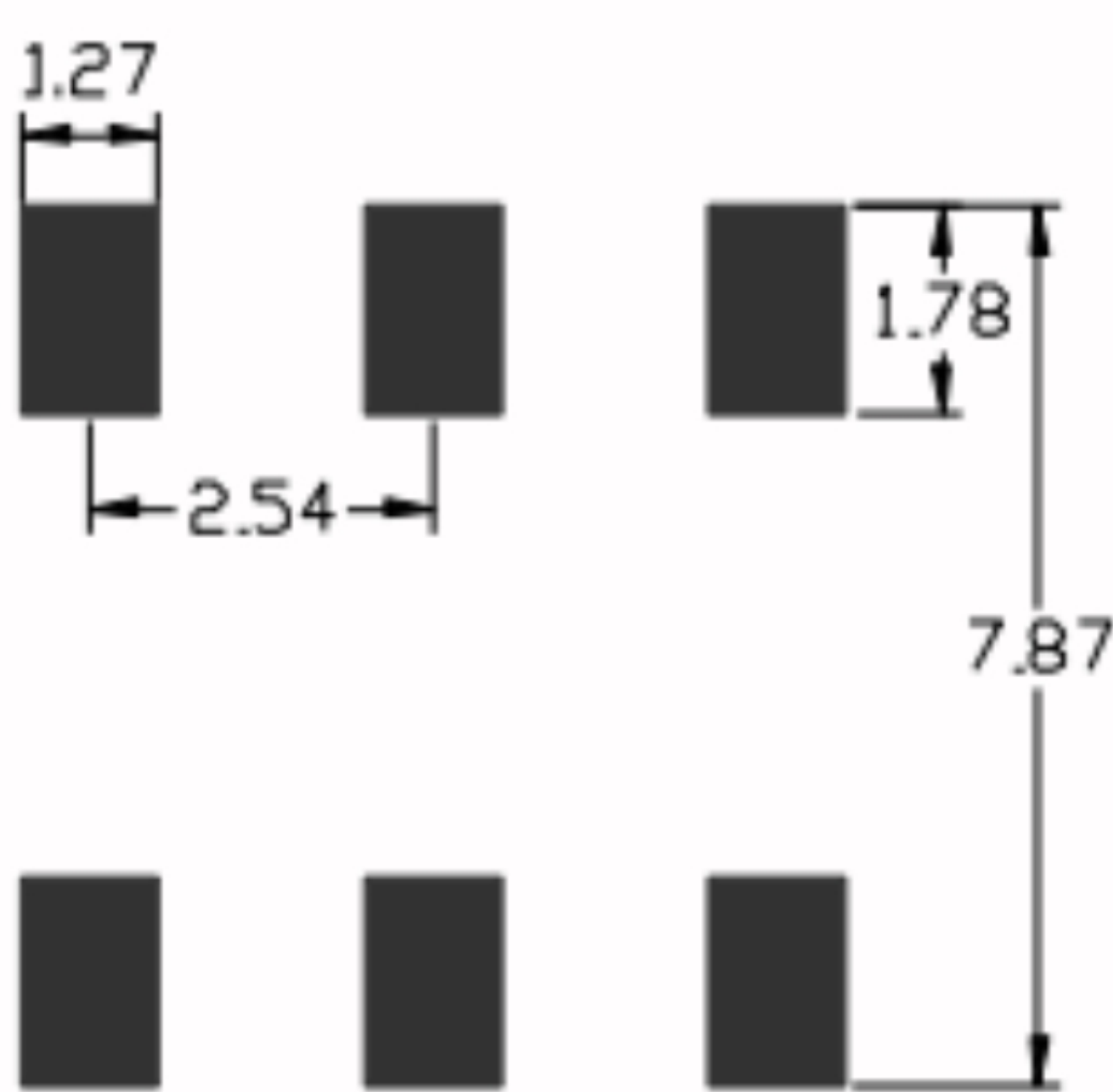
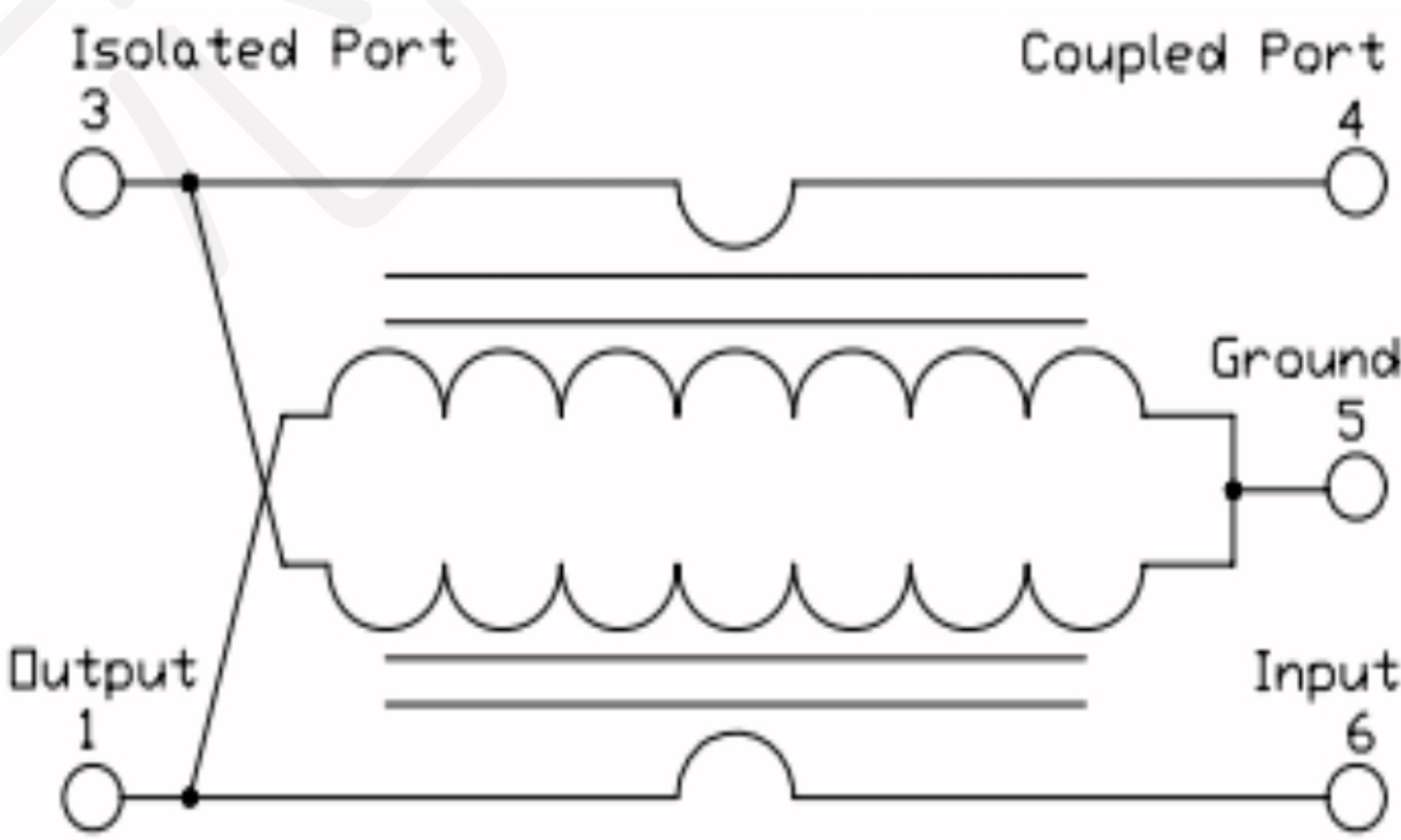
- ◆For catv
- ◆For broadband and wireless communications

Dimension diagram（Unit:mm）：



Electrical structure:

Recommended layout(mm):



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75Ω 16dB Directional Couplers

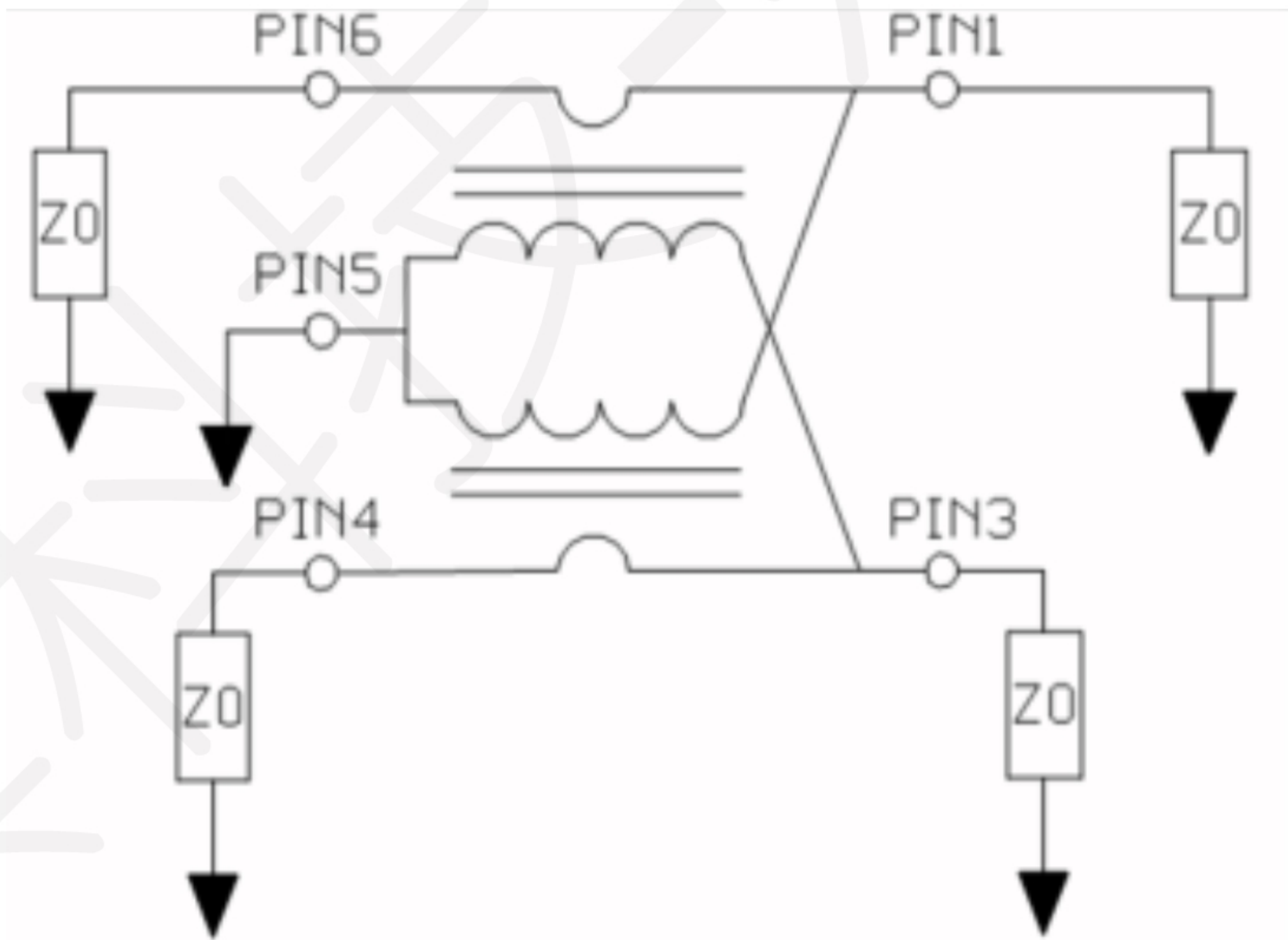
5-1250MHz

Pin configuration



| Pin No. | Function      |
|---------|---------------|
| 1       | Output        |
| 2       | Not Connected |
| 3       | Isolation     |
| 4       | Coupled       |
| 5       | Ground        |
| 6       | Input         |

Application circuit :



Electrical Specifications:  $T_A = 25^{\circ}\text{C}$   $Z_0 = 75\Omega$

| Parameter            | Test Conditions | Units | Min  | Typ  | Max  |
|----------------------|-----------------|-------|------|------|------|
| Main line Loss       | 5-1250MHz       | dB    | —    | 0.8  | 1.5  |
| Coupling             | 5-1250MHz       | dB    | —    | 16.0 | ±1.0 |
| Input Return Loss    | 5-1250MHz       | dB    | 18.0 | 25.0 | —    |
| Output Return Loss   | 5-1250MHz       | dB    | 18.0 | 28.0 | —    |
| Coupling Return Loss | 5-1250MHz       | dB    | 18.0 | 25.0 | —    |
| Isolation            | 5-1250MHz       | dB    | 20.0 | 30.0 | —    |

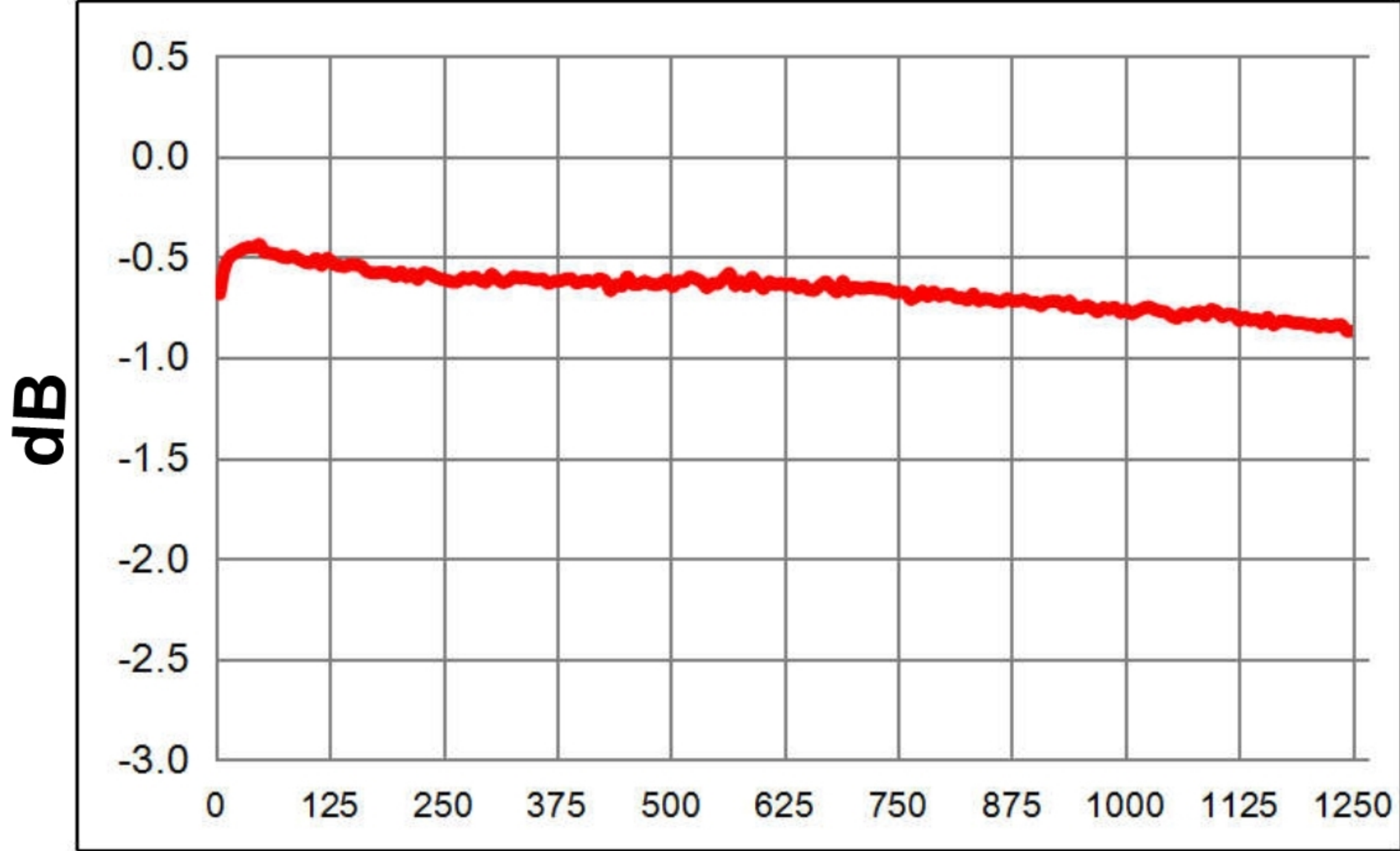
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75Ω 16dB Directional Couplers      5-1250MHz

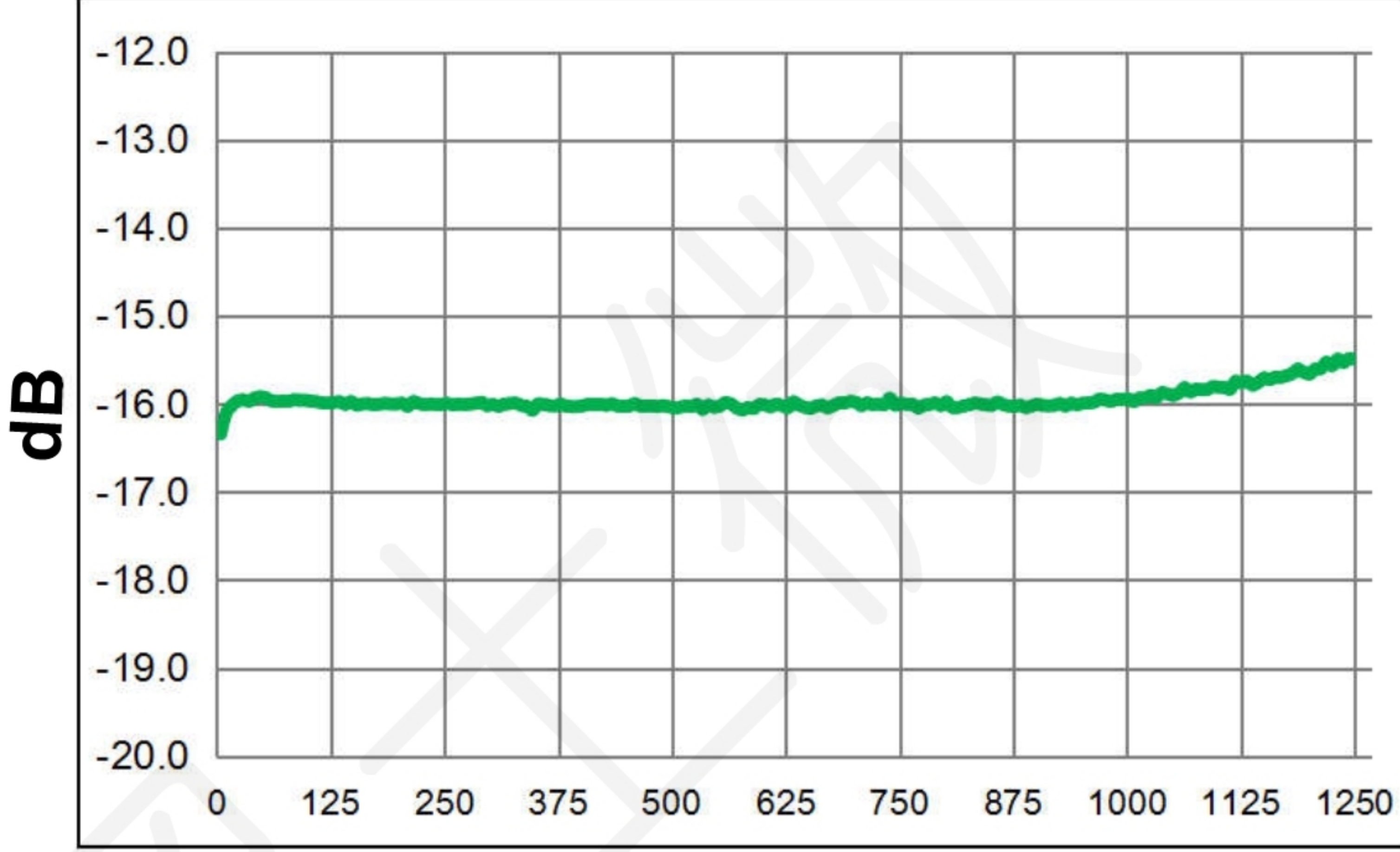


Main line Loss(pin6-1):



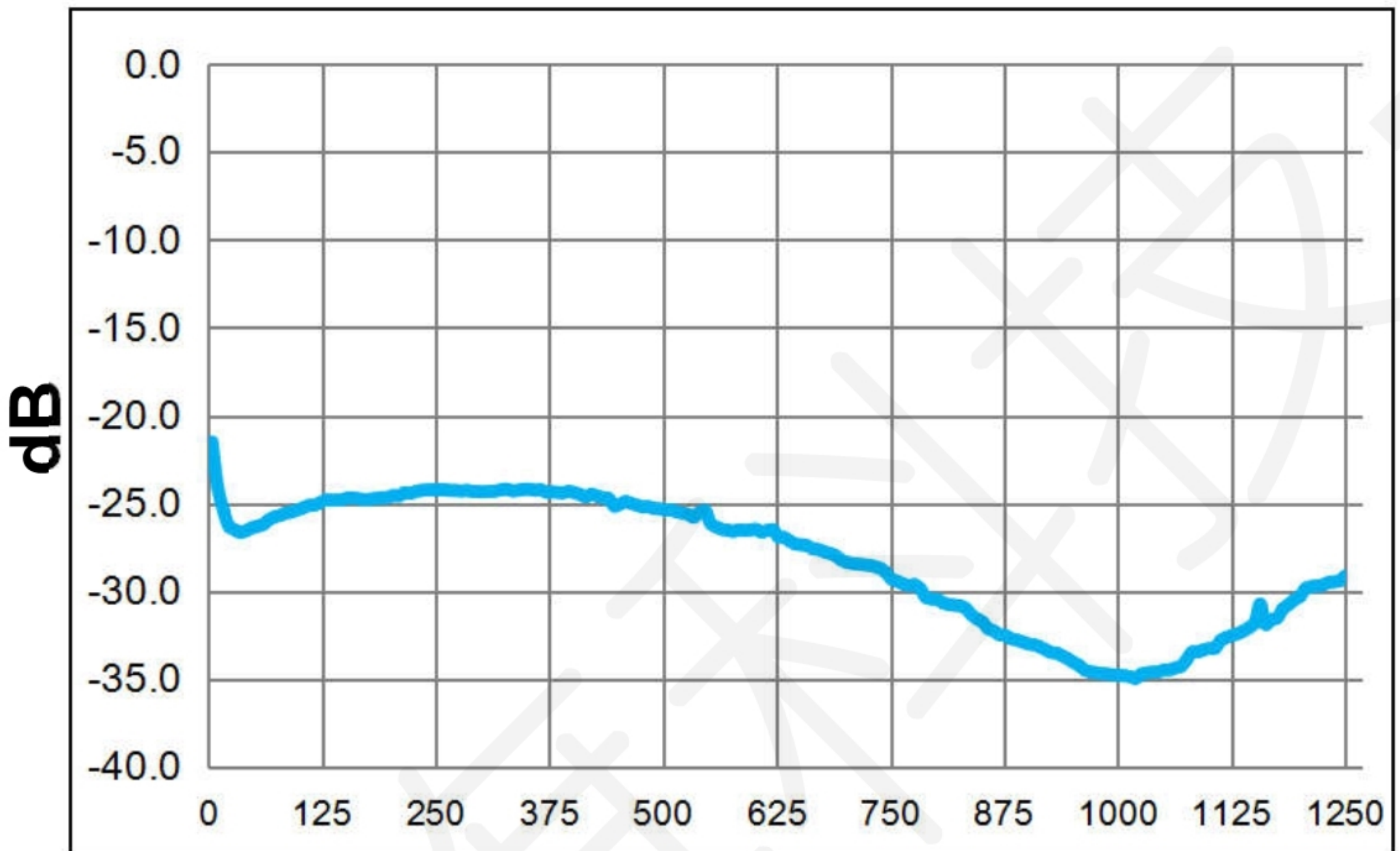
Frequency(MHz)

Coupling(pin6-4):



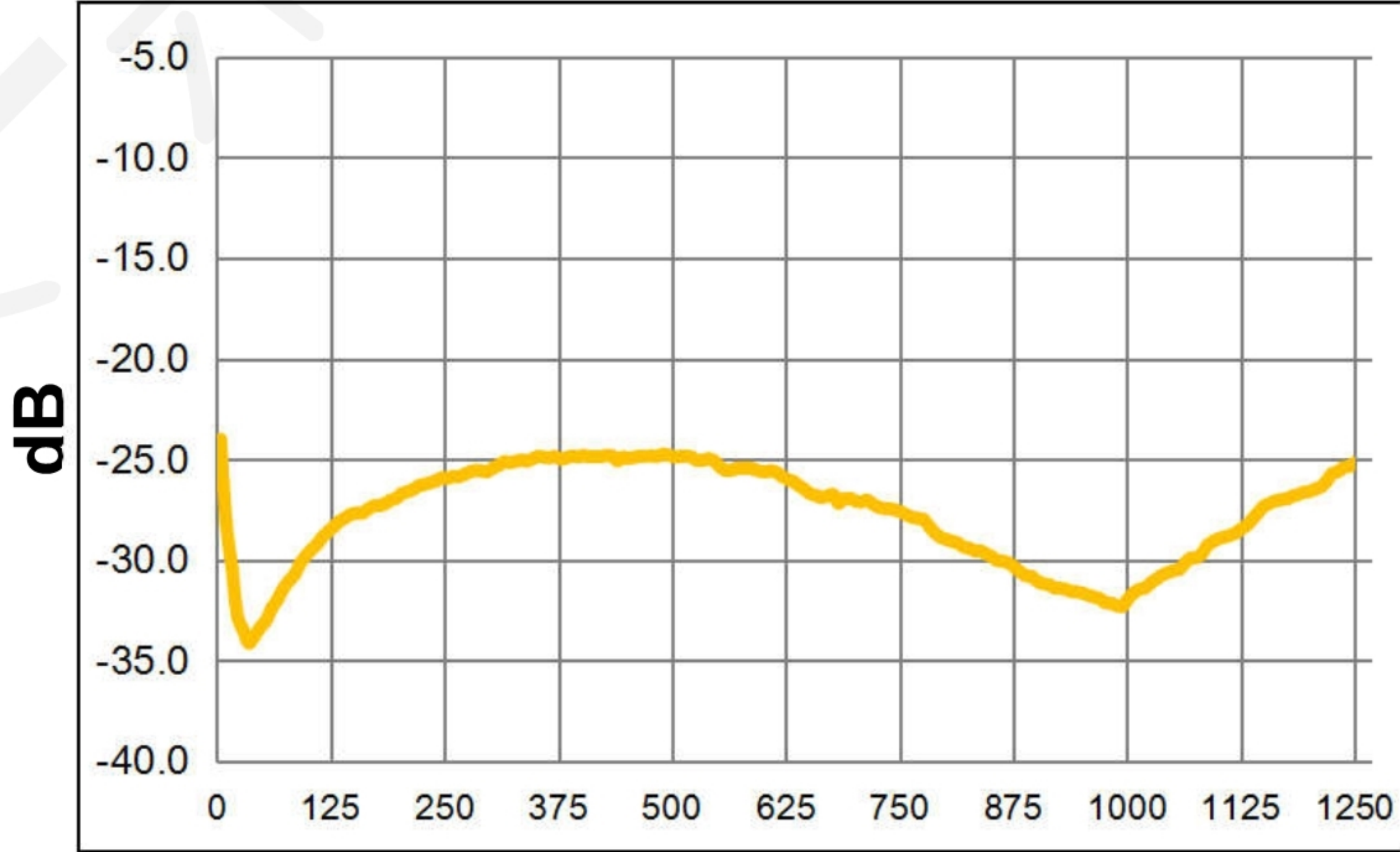
Frequency(MHz)

Input Return Loss (Pin6)



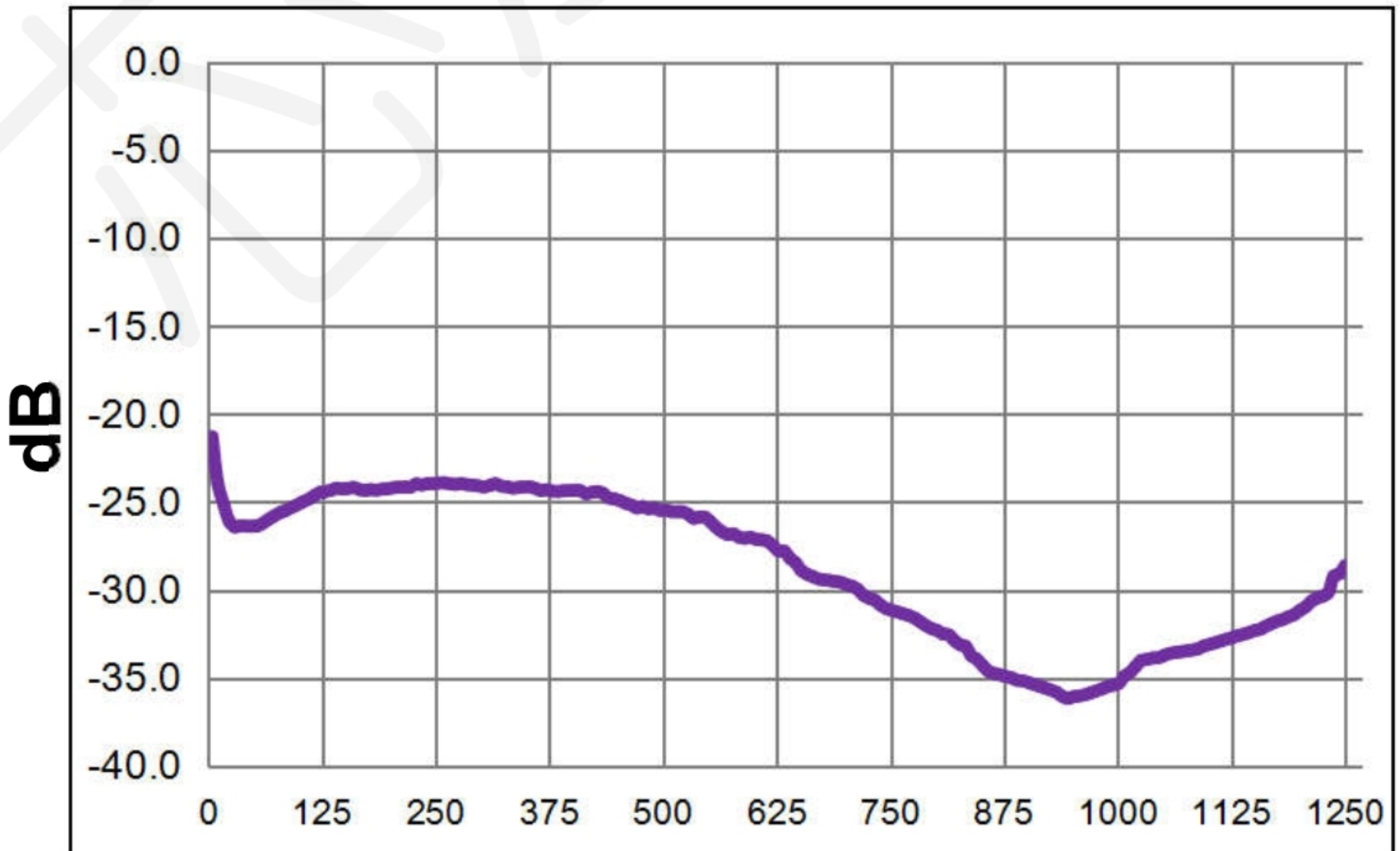
Frequency(MHz)

Output Return Loss (Pin1)



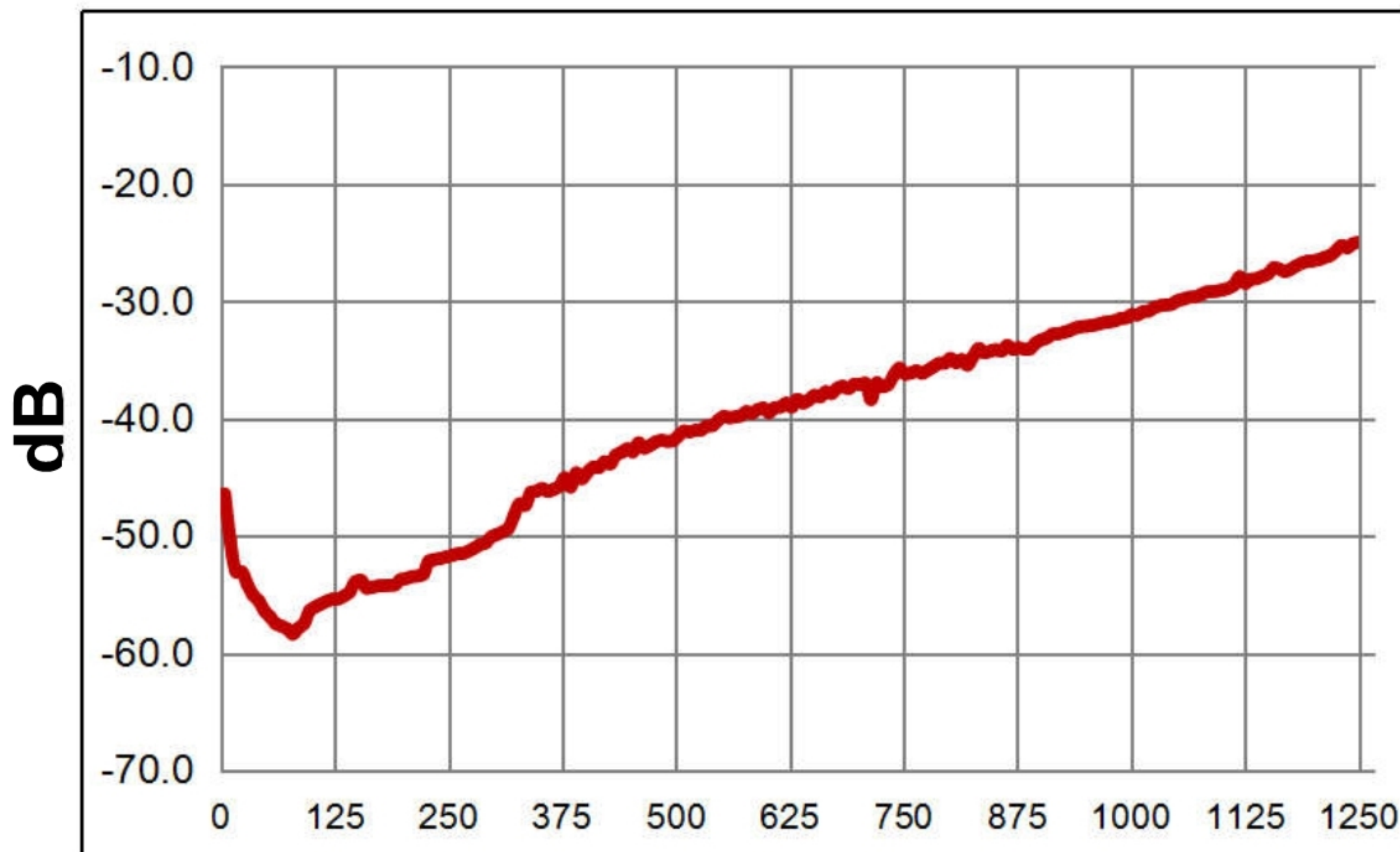
Frequency(MHz)

Coupling Return Loss (Pin4)



Frequency(MHz)

Isolation (Pin6-3)



Frequency(MHz)

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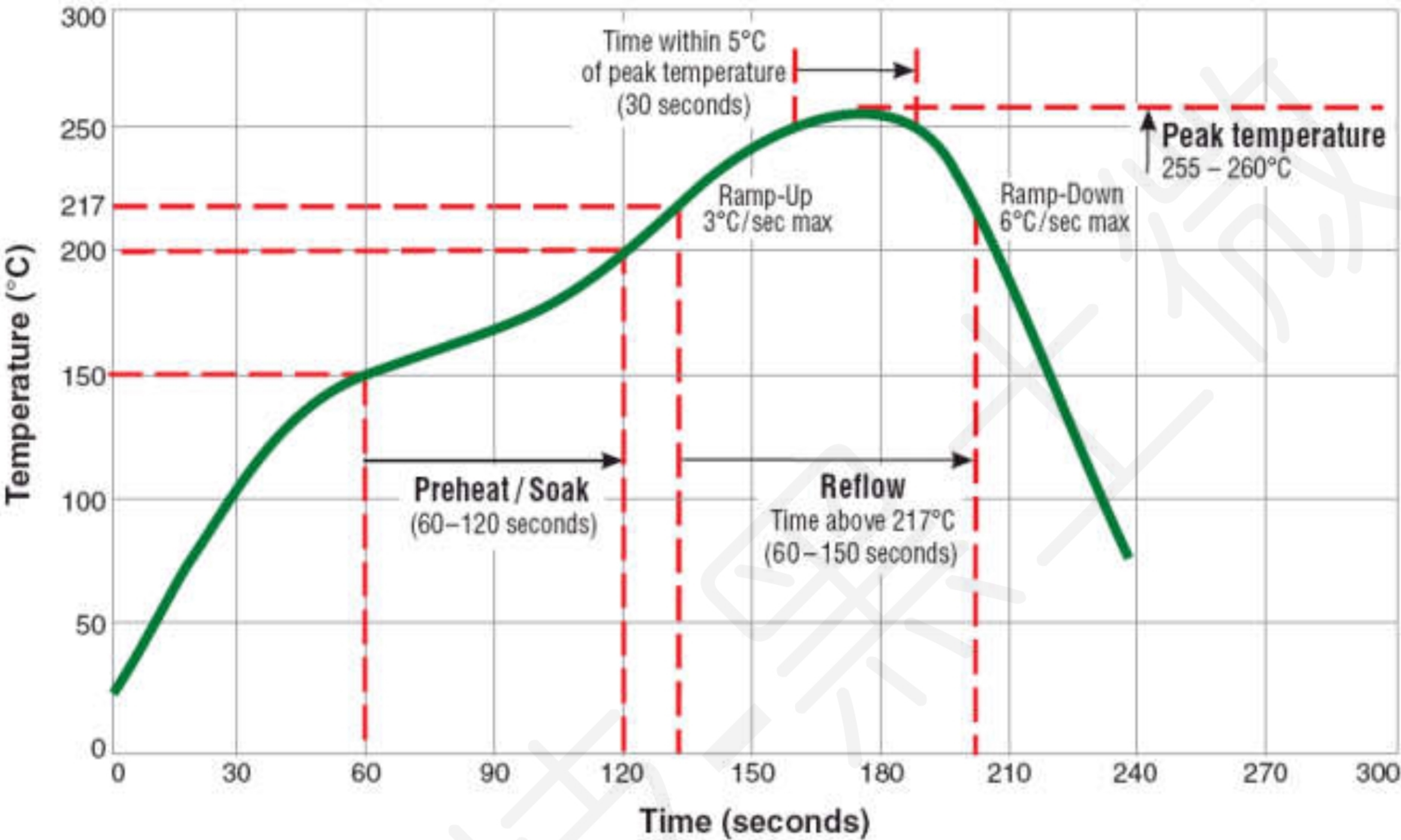
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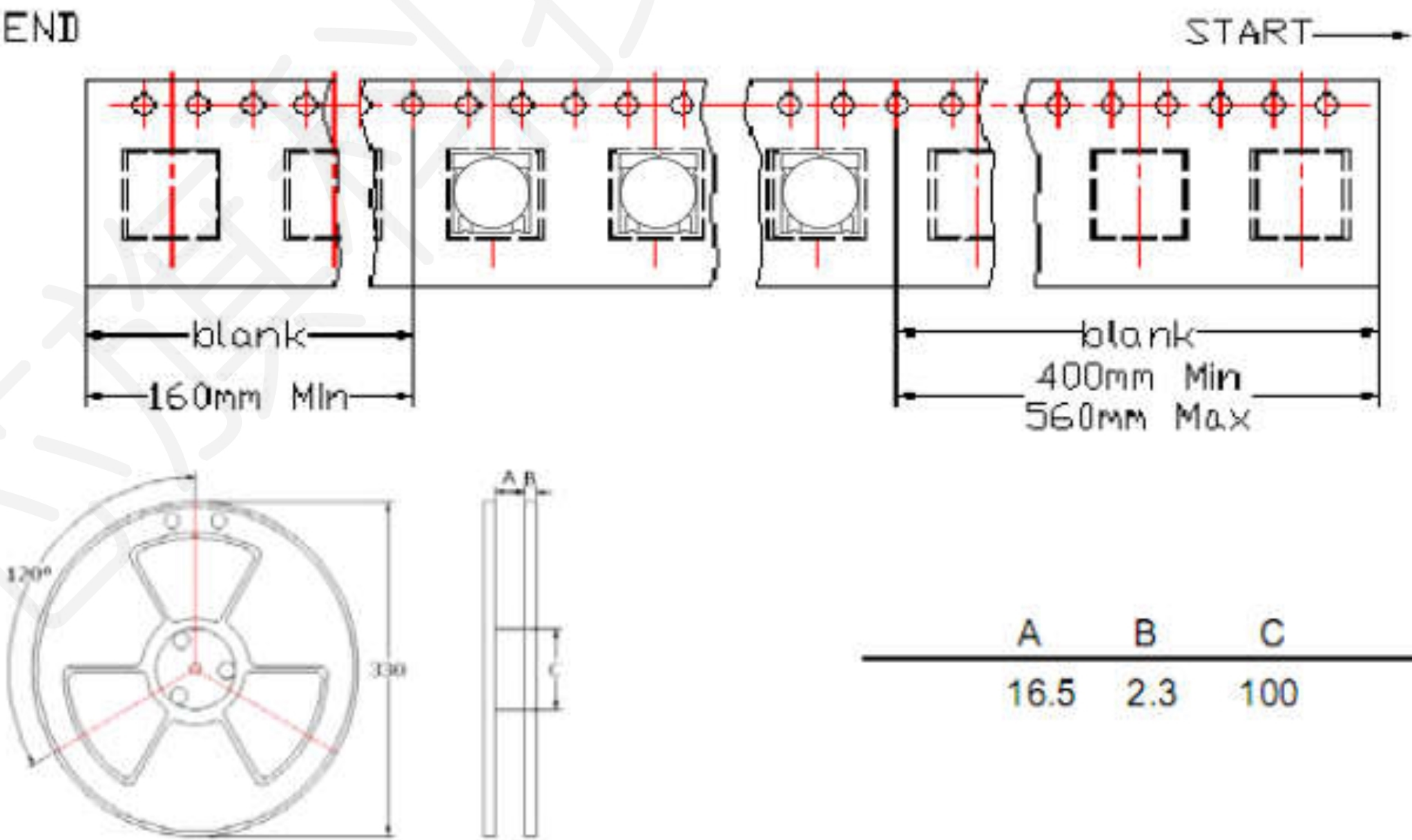
Recommended Soldering Temperature Graph:



Typical RoHS Reflow Profile



Packing Dimension For Caeier Tape(UNIT:mm):



QUANTITY

1500 PCS/Reel      3Reels/Middle Carton      4 Middle Cartons/Big Carton/18000pcs

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