

**71.2 – 72.8 GHz**  
**74.2 – 75.8 GHz**

**DIPLEXER, E-BAND**  
**HBPF72.075.0-284**



#### **DESCRIPTION:**

HBPF72.075.0-284 is a high-performance component designed to precisely separate signals within the 71.2 – 72.8 GHz and 74.2 – 75.8 GHz frequency ranges.

This diplexer provides low insertion loss, high isolation, and excellent return loss to ensure minimal signal degradation and optimal channel separation. Commonly used in point-to-point wireless backhaul, 5G infrastructure, and high-frequency radar systems, it supports a WR-12 waveguide and is designed to meet the requirements of modern mmWave applications.

#### **FEATURES & BENEFITS:**

- Low insertion loss
- Excellent return loss
- Supports WR-12 waveguide
- 91 dB of rejection between frequency bands

#### **SPECIFICATIONS:**

<b>Frequency</b>	<b>Band 1: 71.2 – 72.8 GHz; Band 2: 74.2 – 75.8 GHz</b>
<b>Rejection</b>	91 dB (Min)
<b>Insertion Loss</b>	2.5 dB (Max) within passband
<b>VSWR (Max)</b>	1.5:1
<b>Waveguide</b>	WR-12
<b>Temperature</b>	-35°C to +75°C
<b>Package Size</b>	WR-12 x 3.5"

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