Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, “Standard Terms”); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits’ website at www.minicircuits.com/MCLStore/terms.jsp

Outline Drawing

Outline Dimensions (inch/mm)

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Demo Board MCL P/N: TB-265
Suggested PCB Layout (PL-138)

Electrical schematic

- **Features**
  - low insertion loss, 0.1 dB typ.
  - high isolation, 31 dB typ.
  - good amplitude balance, 1.1 dB max.
  - excellent VSWR, 1.06:1 typ.

- **Applications**
  - VHF
  - balanced amplifiers
  - I&Q modulators

- **Maximum Ratings**
  - Operating Temperature: -40°C to 85°C
  - Storage Temperature: -55°C to 100°C
  - Power Input (as a splitter): 1W max.
  - Permanent damage may occur if any of these limits are exceeded.

- **Pin Connections**
  - SUMPORT 1
  - PORT 1 (0°) 5
  - PORT 2 (+90°) 8
  - GROUND 2,3,6,7
  - 50 OHM TERM EXTERNAL 4

- **Features**
  - low insertion loss, 0.1 dB typ.
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- **Applications**
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  - I&Q modulators

![Generic photo used for illustration purposes only](image-url)

Available Tape and Reel at no extra cost

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**Typical Performance Data**

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<th>Total Loss</th>
<th>Amplitude Unbalance</th>
<th>Isolation</th>
<th>Phase Unbalance (deg)</th>
<th>VSWR</th>
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1. Total Loss = Insertion Loss + 3dB splitter loss.

**Electrical schematic**

PORT 2 50 Ohm
PORT 1

**Surface Mount Power Splitter/Combiner**

**SYPQ-70+**

- 2 Way-90° 50Ω 65 to 75 MHz

- **Features**
  - low insertion loss, 0.1 dB typ.
  - high isolation, 31 dB typ.
  - good amplitude balance, 1.1 dB max.
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- **Splitter Electrical Specifications**

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- **Technical support**
  - Mobile: (718) 934-4500
  - Email: sales@minicircuits.com
  - www.minicircuits.com
  - P.O. Box 350166, Brooklyn, NY 11235-0003

- **Case Style: AH202**

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our website for RoHS Compliance methodologies and qualifications.

- **Power Splitter/Combiner**

**2 Way-90° 50Ω 65 to 75 MHz**

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