

Excellent Integrated System Limited

Stocking Distributor

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Skyworks Solutions Inc. DC08-73LF

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





DATA SHEET

DC08-73, DC08-73LF: Directional Coupler 0.3–2.7 GHz

Features

- Low cost
- Low profile
- Small SOT-6 package
- Available on tape and reel
- Available lead (Pb)-free and RoHS-compliant MSL-1 @ 260 °C per JEDEC J-STD-020

Description

The DC08-73 is a monolithic directional coupler optimized for the 0.81–0.96 GHz band. It offers low loss, good isolation, good input/output matching and exceptional coupling repeatability. It may be used at higher frequencies when stronger coupling is required. It is available in the SOT-6 surface mount package.



Skyworks offers lead (Pb)-free, RoHS (Restriction of Hazardous Substances)-compliant packaging.

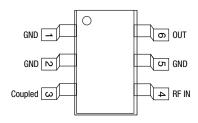
Electrical Specifications at 25 °C

$Z_0 = 50 \ \Omega$, unless otherwise noted

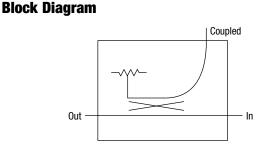
Parameter	Min.	Тур.	Max.	Unit
Frequency	0.81		0.96	GHz
Insertion loss ⁽¹⁾		0.35	0.45	dB
Isolation	21	22		dB
Input VSWR		1.05:1	1.3:1	
Output VSWR		1.05:1	1.3:1	
Coupling	14	15	16	dB
Coupled port VSWR		1.2:1	1.3:1	

1. Coupling loss included.

Pin Out



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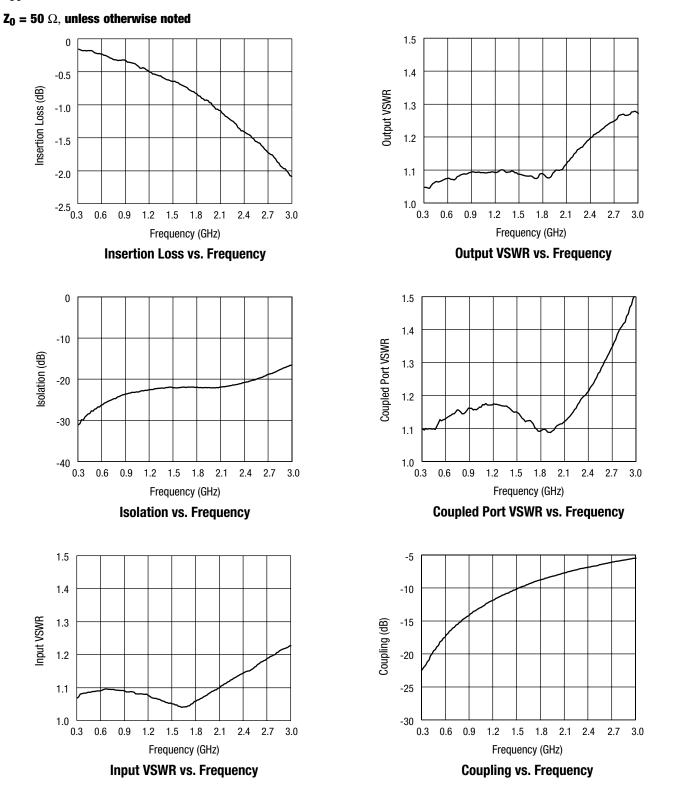




Distributor of Skyworks Solutions Inc.: Excellent Integrated System Limited Datasheet of DC08-73LF - COUPLER DIR 0.81-0.96GHZ SOT-6 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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Typical Performance Data



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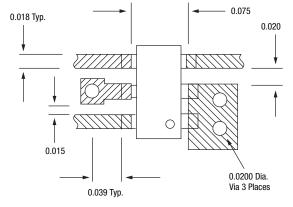
Absolute Maximum Ratings

Characteristic	Value	
Input power	4 W	
Operating temperature	-40 °C to +85 °C	
Storage temperature	-65 °C to +150 °C	
Electrostatic discharge	125 V	

Performance is guaranteed only under the conditions listed in the specifications table and is not guaranteed under the full range(s) described by the Absolute Maximum specifications. Exceeding any of the absolute maximum/minimum specifications may result in permanent damage to the device and will void the warranty.

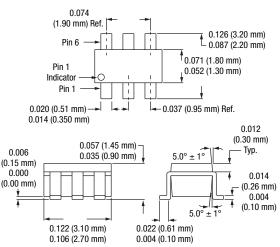
CAUTION: Although this device is designed to be as robust as possible, ESD (Electrostatic Discharge) can damage this device. This device must be protected at all times from ESD. Static charges may easily produce potentials of several kilovolts on the human body or equipment, which can discharge without detection. Industry-standard ESD precautions must be employed at all times.

Recommended Board Layout



Material is 10 mil FR4.

SOT-6



Recommended Solder Reflow Profiles

Refer to the "<u>Recommended Solder Reflow Profile</u>" Application Note.

Tape and Reel Information

Refer to the "*Discrete Devices and IC Switch/Attenuators Tape and Reel Package Orientation*" Application Note.



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