

SCC SERIES BLOCK DOWNCONVERTER

FEATURES

- 18 – 40 GHz Down-converter (2 Bands)
- IF Output at 2 – 18 GHz
- 4 Identical Phase Matched Channels
- Internal LOs w/ 3° Integrated Phase Noise
- Internal Reference Switch Optional

APPLICATIONS

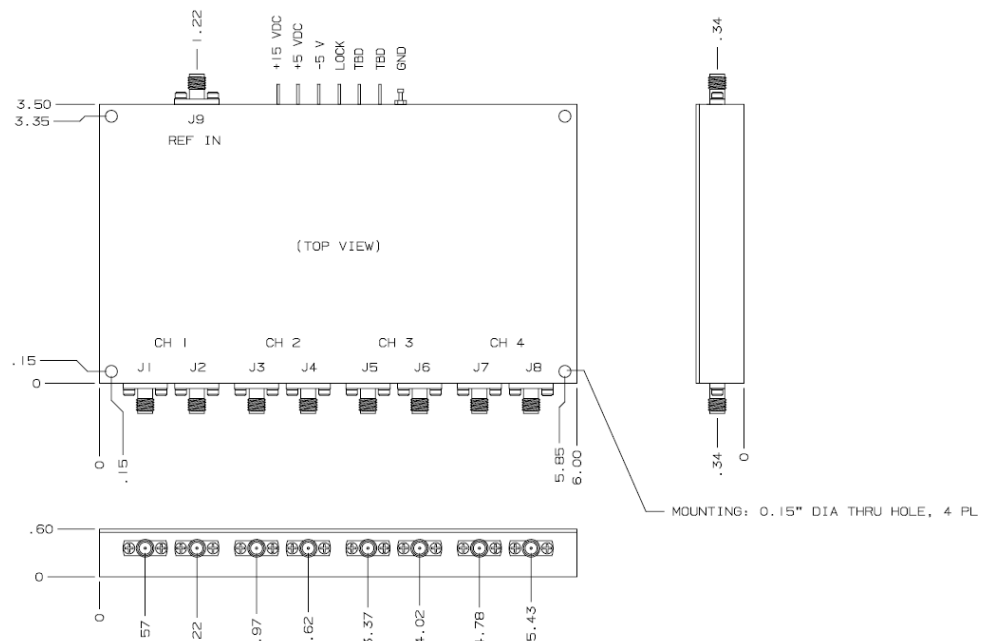
- EW / ECM / SIGINT
- Receivers
- Radar Systems
- Instrumentation or Embedded Application



DESCRIPTION

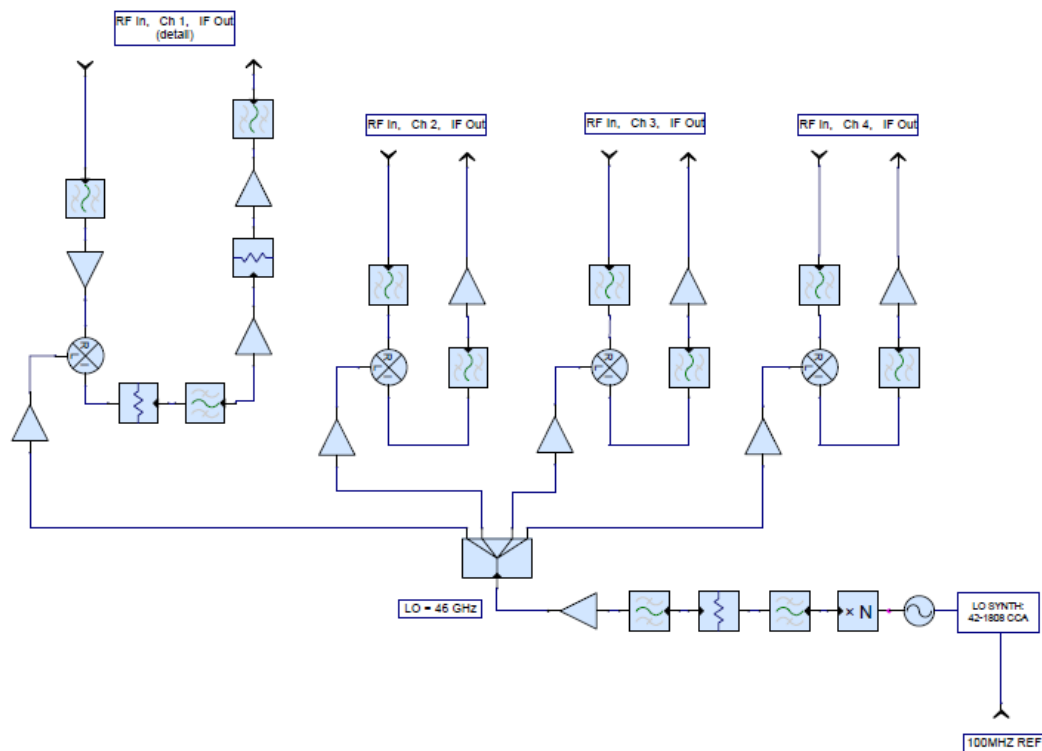
Spinnaker Microwave's SCC Series Block Downconverter offers a convenient, cost-effective solution for translating wideband 18 – 40 GHz RF signals into the 2 – 18 GHz domain (via two separate converter banks) giving extended frequency coverage to many existing EW systems. Four phase matched outputs present identical channel-to-channel performance for various military and / or Instrumentation applications. The SCC Series Block Downconverter features internal LOs with low 3° RMS integrated phase noise and the option for an internal reference – all in a durable and compact (6" x 3.5" 0.5") housing.

OUTLINE DRAWING



SCC SERIES BLOCK DOWNCONVERTER

BLOCK DIAGRAM:



SPECIFICATIONS:

Description	Specification
Frequency Bandwidth (Band 1)	18 – 28 GHz
Frequency Bandwidth (Band 2)	28 – 40 GHz
Phase Tracking	5° All Channels
Integrated Phase Noise	3° RMS, 100 Hz – 10 MHz
Noise Figure	15 dB
Conversion Gain	15 dB
Input 1 dB compression	-15 dBm
Spurious Products	≤ -50 dBc
LO Feedthru	≤ -50 dBm
+5 VDC Bias	2000 mA
-5 VDC Bias	100 mA
Compact / Rugged Housing	6" x 3.5" x 0.5"

CUSTOM OPTIONS AVAILABLE – CONTACT FACTORY



Certificate # A2498US