

HL9430 DC Block Capacitor

The HL9430 prevents perturbation of a circuit's DC biasing by low DC input resistance in a resonance-free 50 ohm controlled impedance environment.

Applications

This product is suitable for use with HYPERLABS components such as the HL9402 balun, HL9410 pulse inverter, and HL9420 Series pulse formers.

Features and Technical Specifications

Insertion Loss	-1.24 dB at 10 GHz; see <i>Figure 3</i> for details
Return Loss	-11 dB at 10 GHz; see <i>Figure 4</i> for details
Risetime	< 17.5 ps
Bandwidth (-3 dB)	16 KHz to 20 GHz
Impedance	50 Ω
Time Domain Reflection	150 mRho inductive
SPICE Model	0.468 nH serial inductance
Connectors	SMA, 1 x Plug in, 1 x Jack out
Dimensions	60.4 x 25.3 x 13.8 mm 2.38" x 1.0" x 0.54"
Weight	23.8 g 0.84 oz
Temperature Limits	0° to +40° C, operating -40° to +85° C, storage
Warranty	1 year, repair or return at the sole discretion of HYPERLABS, Inc.

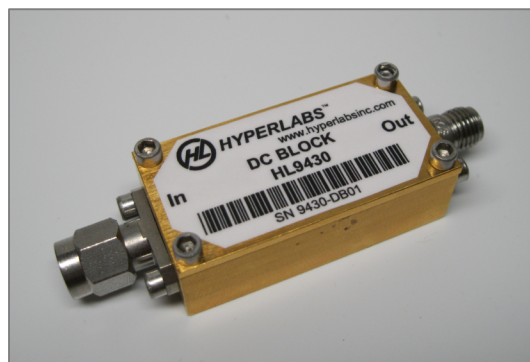


Figure 1: HL9430 DC Block Capacitor

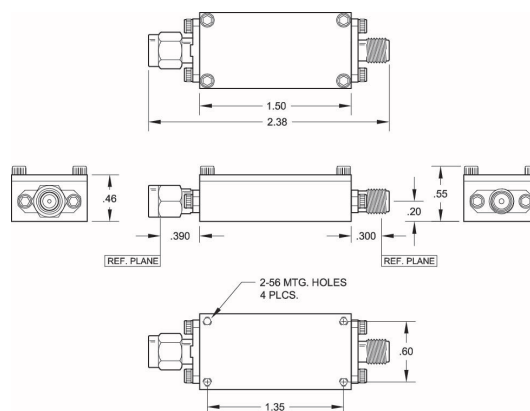


Figure 2: Dimensional drawing of the HL9430

Deployment Notes

This product is available as either a single unit or as part of an amplitude- and phase-matched pair. Please contact HYPERLABS for pricing and availability.

HL9430 Frequency Domain Measurements

Figure 3 shows the insertion loss on the RF Output of the HL9430 from 16 KHz to 20 GHz.

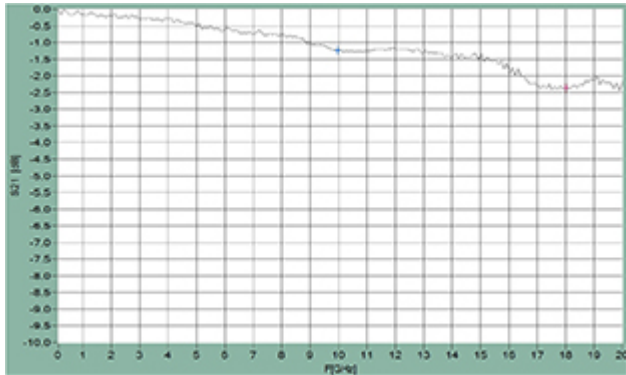


Figure 3: Insertion Loss (S21) on the RF Output of the HL9430

Figure 4 shows the return loss on the RF Input of the HL9430 from 16 KHz to 20 GHz.

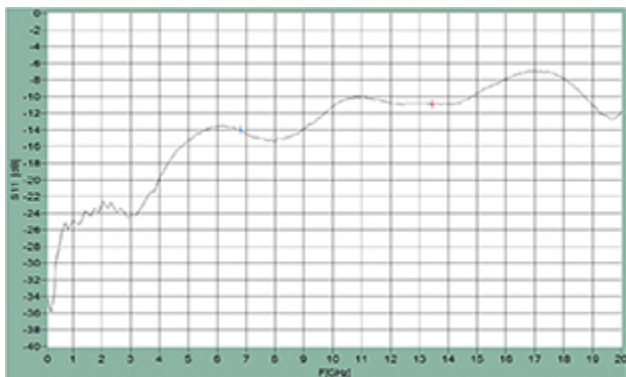


Figure 4: Return Loss (S11) on the RF Input of the HL9430