

90° HYBRID COUPLER

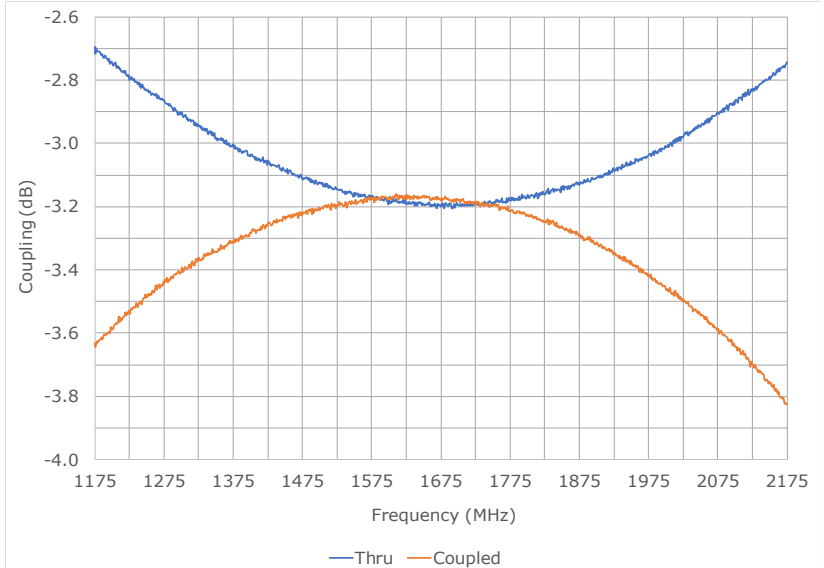
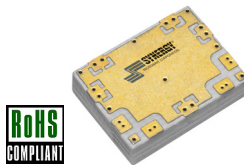
SYNSTRI[®] MODEL: MSQ1121G

WIDE BANDWIDTH

1175 - 2175 MHz

FEATURES:

- ▶ Synstrip Technology™
- ▶ Small Package Size, Surface Mount
- ▶ REL-PRO® Patented Technology
- ▶ Building Block For:
 - Power Amplifiers
 - Image Rejection Mixers
 - I & Q / SSB Modulators
 - Phase Shifters & More...



SPECIFICATIONS (Rev. A 07/14/26)

Frequency	1175 - 2175 MHz		
Insertion Loss (dB) *	Frequency (MHz)	Typ.	Max.
	1175 - 2175	0.29	0.45
	1375 - 1925	0.21	0.30
Amplitude Unbalance (dB)	Frequency (MHz)	Typ.	Min.
	1175 - 2175	1.1	1.5
	1375 - 1925	0.4	0.7
Phase Unbalance (Deg.)	Frequency (MHz)	Typ.	Min.
	1175 - 2175	0.5	4
	1375 - 1925	0.5	3

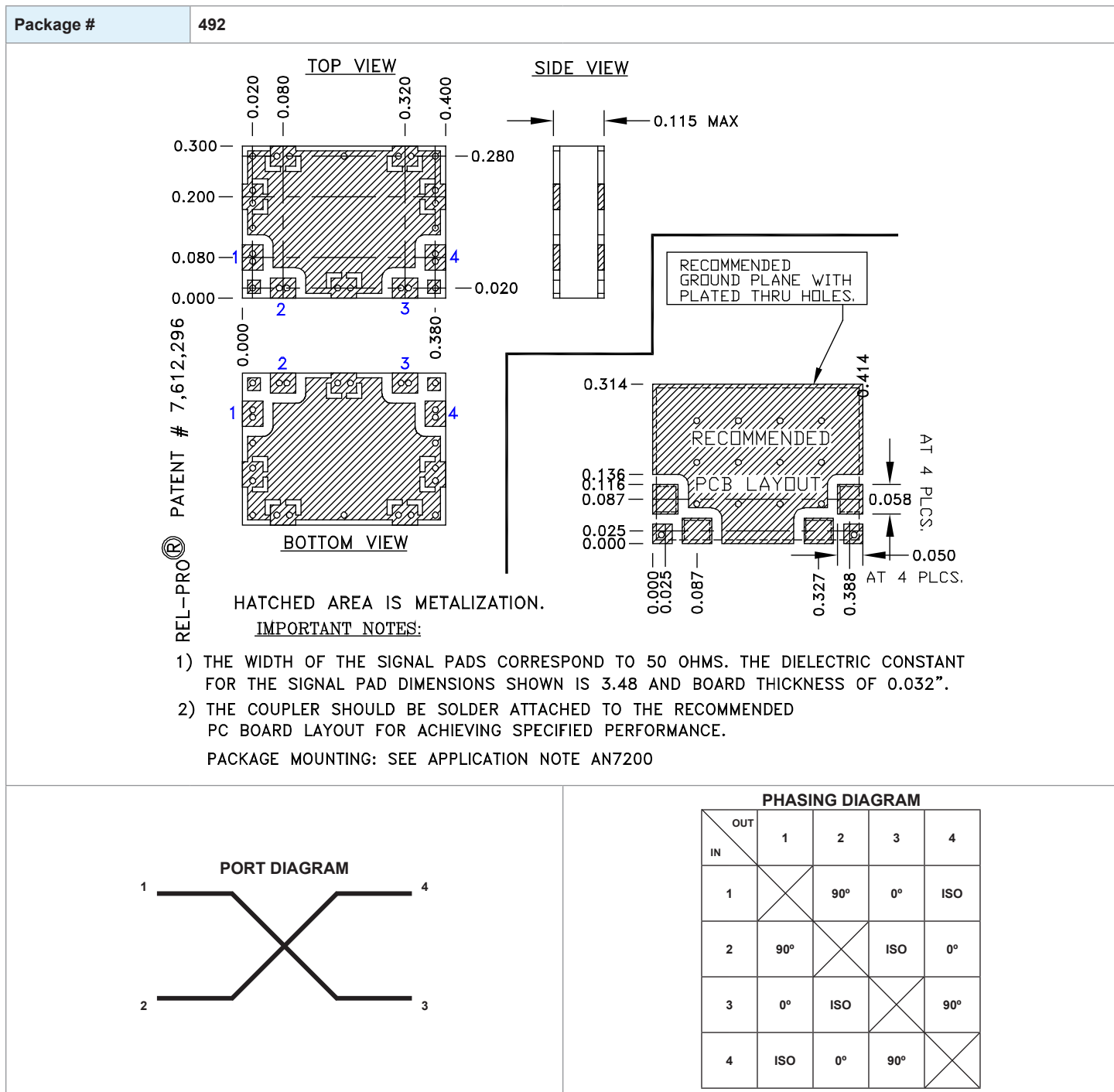
Isolation (dB)	Frequency (MHz)	Typ.	Min.
	1175 - 2175	25	20
	1375 - 1925	26	20
Power Rating	100 Watts Avg. (CW)		
Impedance	50 Ohms (Nom.)		
VSWR	Frequency (MHz)	Max.	
	1175 - 2175	1.30:1	
	1375 - 1925	1.30:1	
Operating Temperature Range	-55 to +85 °C		
* Is the average of the two coupling signals in excess of the 3 dB theoretical signal splitting			

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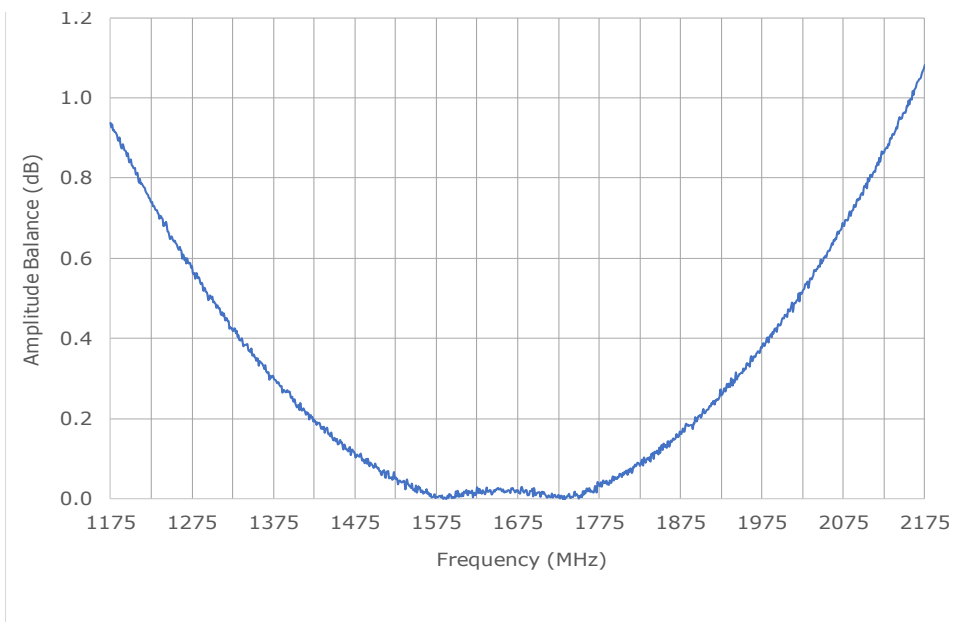
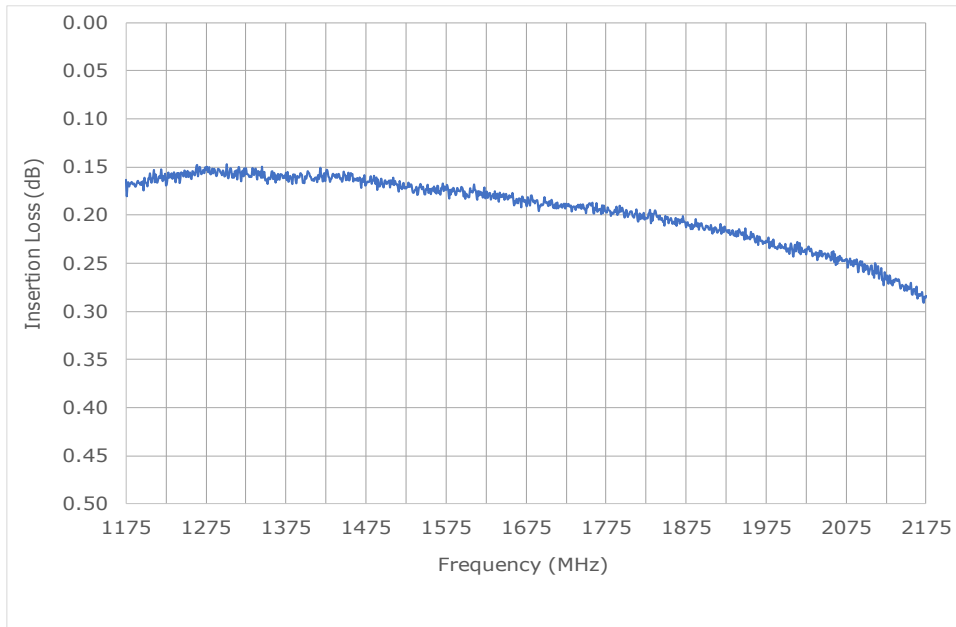
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SYNSTRIP® MODEL: MSQ1121G

WIDE BANDWIDTH

1175 - 2175 MHz

Data @ 25°C



PERFORMANCE PLOTS

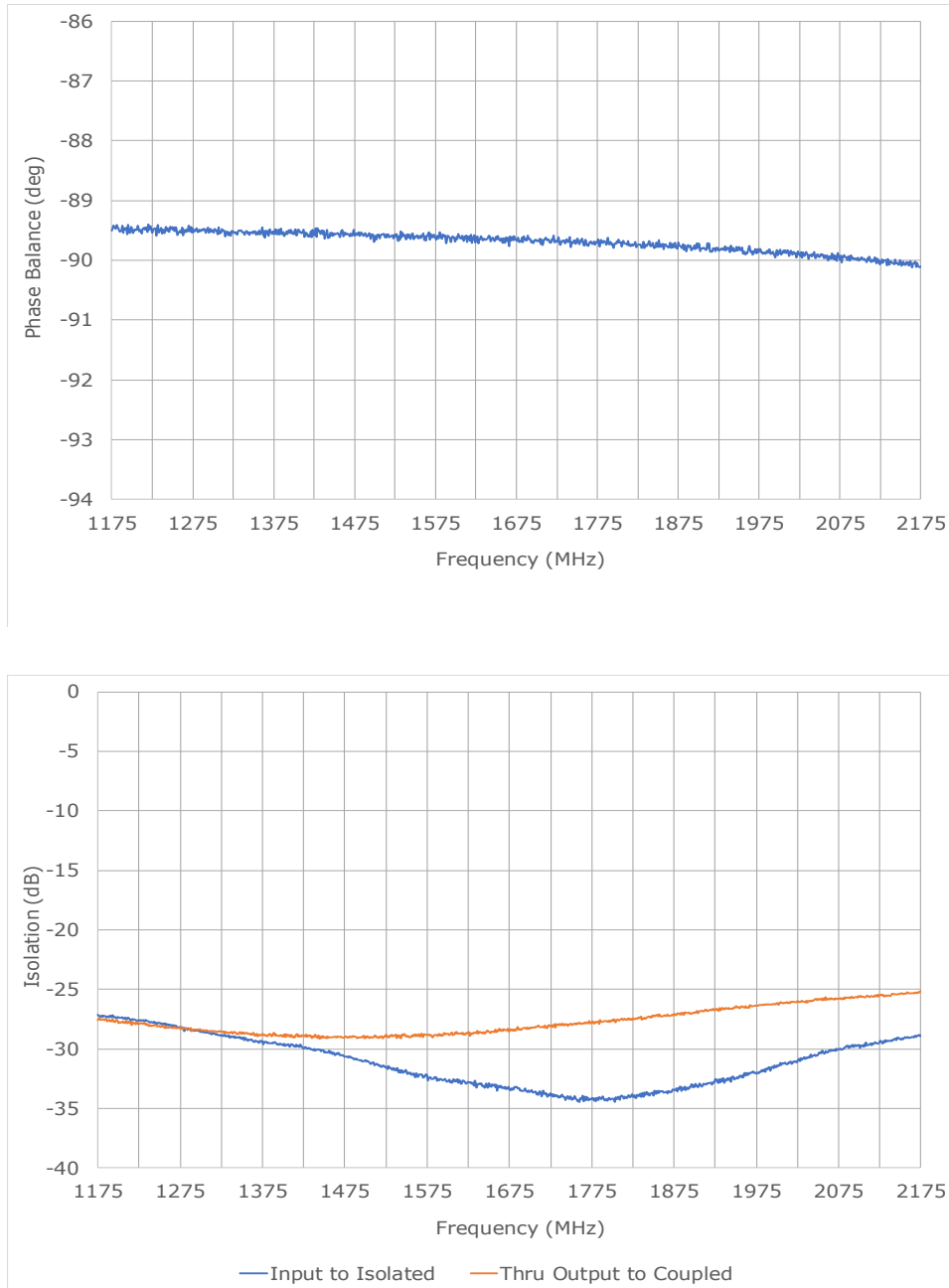
90° HYBRID COUPLER

SYNSTRIIP® MODEL: MSQ1121G

WIDE BANDWIDTH

1175 - 2175 MHz

Data @ 25°C



PERFORMANCE PLOTS

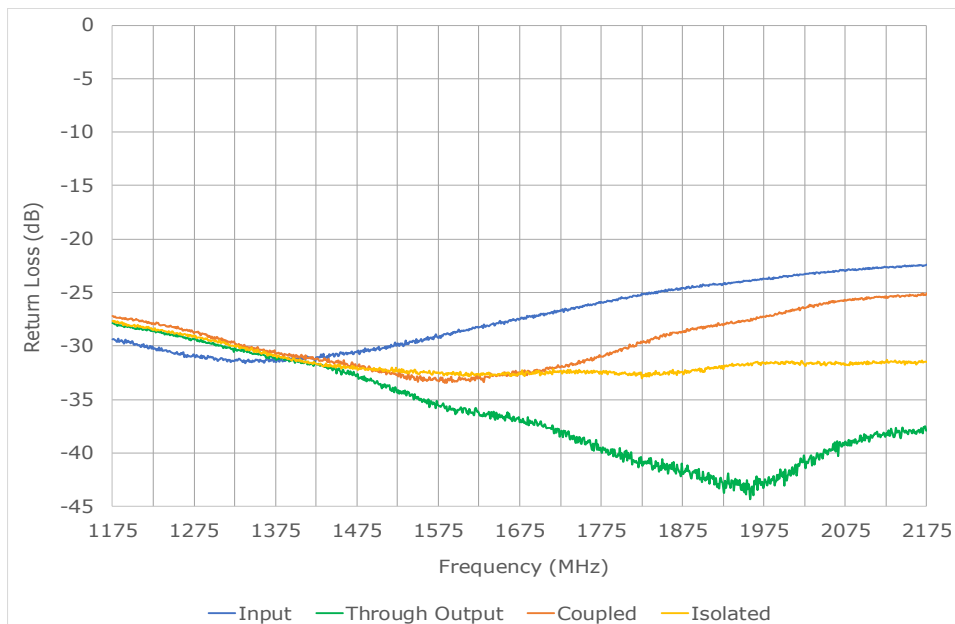
90° HYBRID COUPLER

SYNSTRIIP® MODEL: MSQ1121G

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PERFORMANCE PLOTS