

Technical drawings of the 1000 Series 1/2" components, showing front and side views with dimensions in inches and millimeters.

Top View (Left):

- Overall width: 0.050 (1.27)
- Overall height: 0.030 (0.762)
- Internal width: 0.150 (3.81)
- Internal height: 0.030 (0.762)
- Feature 1: 0.050 (1.27)
- Feature 2: 0.050 (1.27)
- Feature 3: 0.050 (1.27)
- Feature 4: 0.050 (1.27)
- Feature 5: 0.050 (1.27)

Side View (Right):

- Overall width: 0.150 MAX (3.81 MAX)

Bottom View (Left):

- Overall width: 0.150 (3.81)
- Overall height: 0.030 (0.762)
- Internal width: 0.100 (2.54)
- Internal height: 0.030 (0.762)
- Feature 1: 0.050 (1.27)
- Feature 2: 0.050 (1.27)
- Feature 3: 0.050 (1.27)
- Feature 4: 0.050 (1.27)
- Feature 5: 0.050 (1.27)

Bottom View (Right):

- Overall width: 0.130 (3.30)
- Overall height: 0.065 (1.65)
- Internal width: 0.055 (1.397)
- Internal height: 0.190 (4.83)
- Feature 1: 0.030 (0.762)
- Feature 2: 0.030 (0.762)
- Feature 3: 0.030 (0.762)
- Feature 4: 0.030 (0.762)
- Feature 5: 0.030 (0.762)

Primary Dot 4
3 turns
Primary 5
PRI

3 Secondary Dot
3 turns
2 Secondary CT
3 turns
1 Secondary

Parameter	Units	Nominal	Maximum	Mean (x)	Sigma (σ)
Frequency Range 2.0 - 800	MHz	—	—	—	—
Insertion Loss ($f_L - f_U$)					
10 - 100 MHz	dB	—	1.0	—	—
5.0 - 600 MHz	dB	—	2.0	1.21	0.032
2.0 - 800 MHz	dB	—	3.0	—	—
Amplitude Unbalance					
10 - 100 MHz	dB	—	0.25	—	—
2.0 - 800 MHz	dB	—	1.0	—	—
Phase Unbalance					
10 - 500 MHz	Degrees	—	2.0	—	—
2.0 - 800 MHz	Degrees	—	10	—	—

V2.00 S 0258 L

Absolute Maximum Ratings

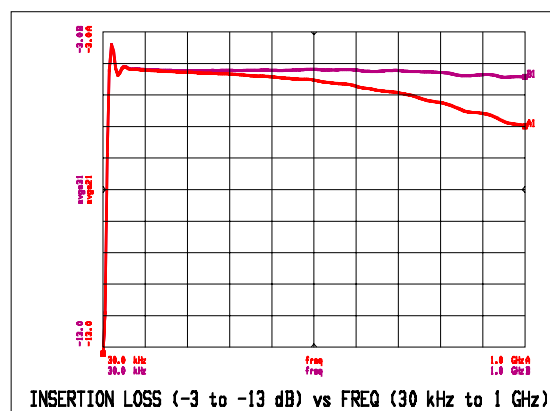
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Operating Temperature	-20°C to +85°C
Storage Temperature	-20°C to +85°C

Functional Configuration

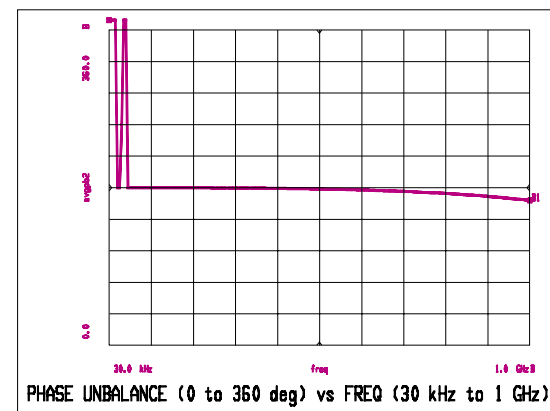
Function	Pin No.
Secondary	1
Secondary CT	2
Secondary Dot	3
Primary Dot	4
Primary	5

Typical Performance Over Extended Bandwidth (30kHz - 1.0GHz)

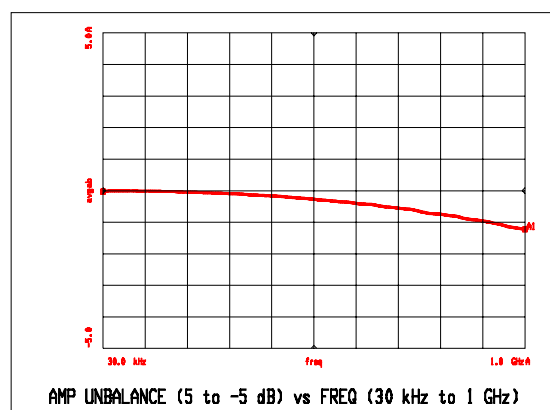
Insertion Loss



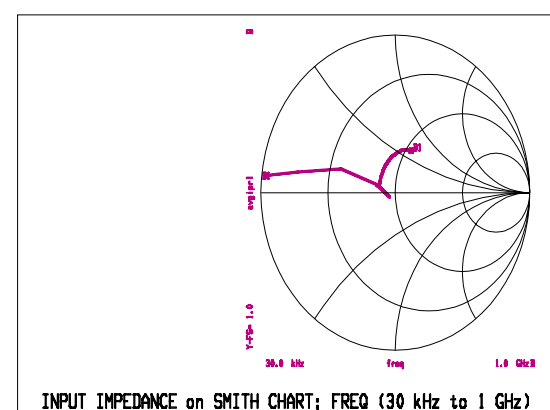
Phase Unbalance



Amplitude Unbalance



Input Impedance



Note: All measurements performed on Hewlett Packard 8753D Network Analyzer (201 sample points, linear scale) in a 50 ohm coplanar waveguide environment. Tables created using MDS software.