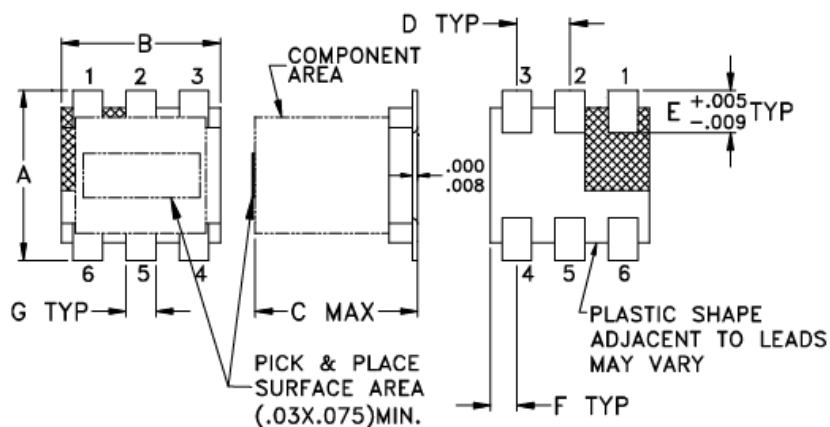


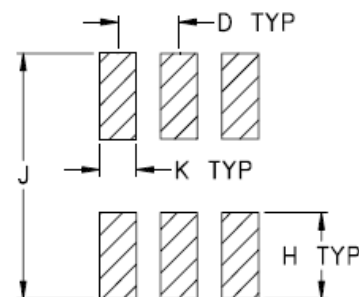
Outline drawing

Feature:

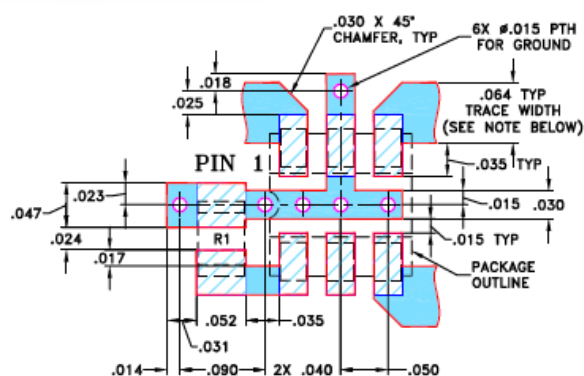
- **9db coupler**
- **Surface mount**
- **260°C reflow compatible**
- **RoHS* compliant and lead free**
- **welding connect**



PCB Land Pattern

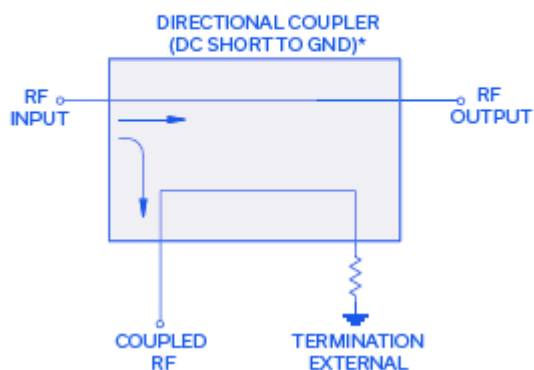


Suggested Layout,
Tolerance to be within $\pm .002$

RESISTOR R1: 49.9 $\pm$ 1% Ohm, 0805 SIZE

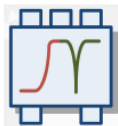
SUGGESTED PCB LAYOUT

SCHEMATIC



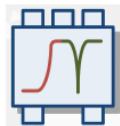
DIMENSIONS (Inches)

A	B	C	D	E	F
.160	.150	.160	.050	.040	.025
4.06	3.81	4.06	1.27	1.02	0.64
G	H	J	K		wt
.028	.065	.190	.030		grams
0.71	1.65	4.83	0.76		0.15

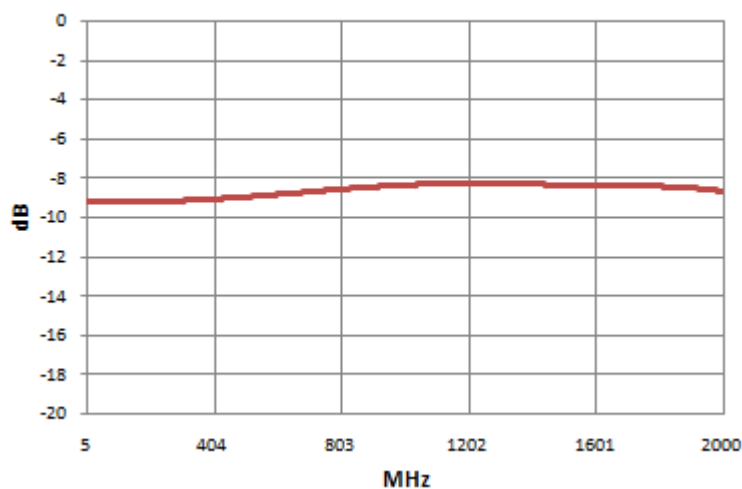
**PIN CONFIGURATION**

PIN	FUNCTION
3	Input
2	Ground
1	Coupled
5	NOT USED
4	Output
6	50Ω TERM EXTERNAL

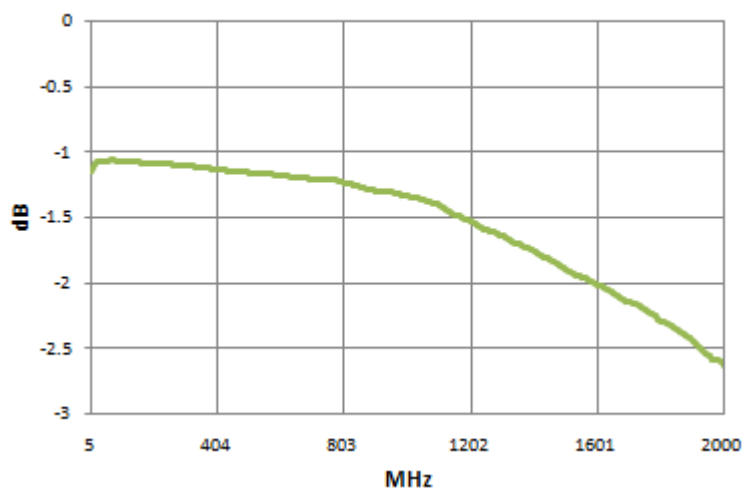
Electrical Specifications: TA=25°C, Zo=50Ω					
Parameter	Test Conditions	Units	Min.	Typ.	Max.
Coupling	5-1000MHz	dB	8.4	8.9	9.4
	1000-2000MHz	dB	8.4	8.9	9.4
Flatness	5-2000MHz	dB	---	---	±0.6
Mainline Loss	5-50MHz	dB	---	1.2	2.1
	50-500MHz	dB	---	1.2	1.8
	500-1000MHz	dB	---	1.5	2.1
	1000-2000MHz	dB	---	2.5	---
Input return loss	50-1000MHz	dB	-20	-28	-
	1000-1500MHz	dB	-18	-25	
	1500-2000MHz	dB	-15	-25	
Directivity	5-50MHz	dB	17	21	-
	50-500MHz	dB	13	17	
	500-1000MHz	dB	10	13	
	1000-2000MHz	dB	---	10	
VSWR	5-1000MHz	:1	---	1.30	---
	1000-2000MHz		---	1.60	---
Input Power	5-1000MHz	W	---	0.5	---
	1000-2000MHz		---	1.0	---
Test Impedance (50Ω,75Ω, etc.)		50OHM			
Operating Temperature		-40°C to +85°C			
Storage Temperature		-55°C to +100°C			



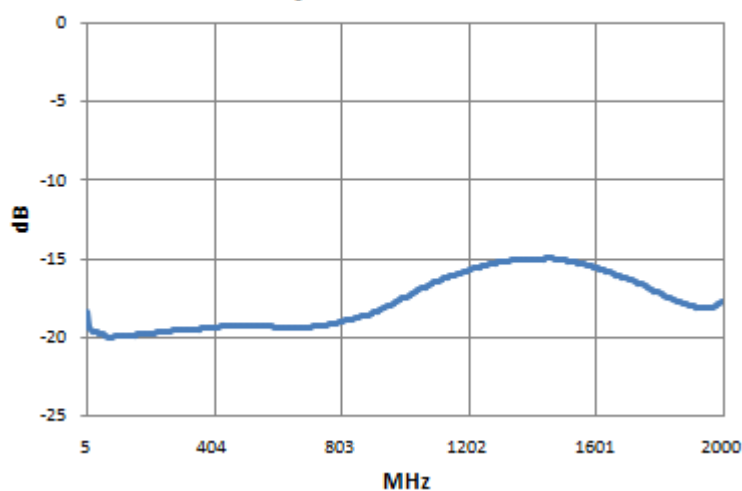
Coupling



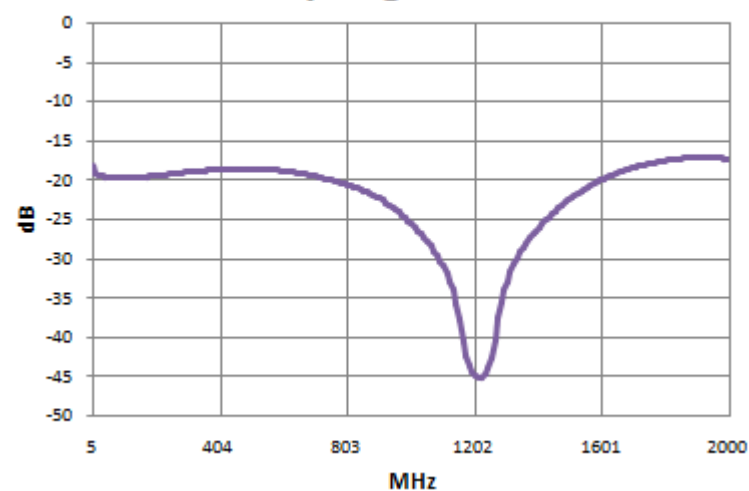
Mainline Loss



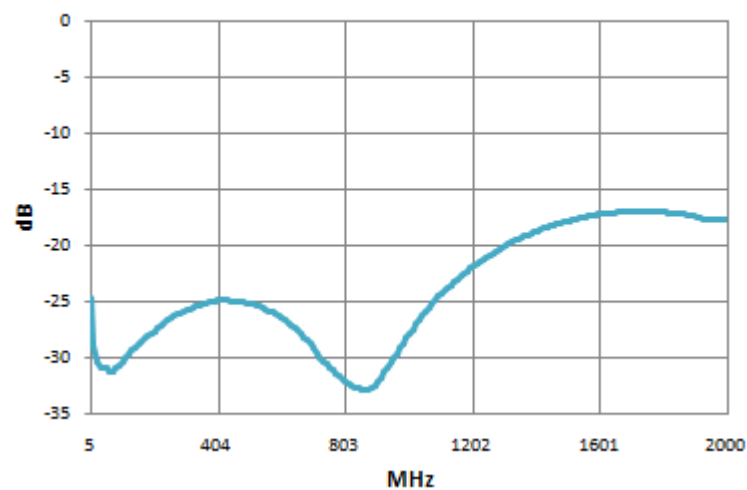
Input Return Loss



Coupling Return Loss



Output Return Loss



Directivity

