



20dB coupler **Frequency: 30-2500MHZ.**

Feature:

.20dB COUPLER.

.SMT part.

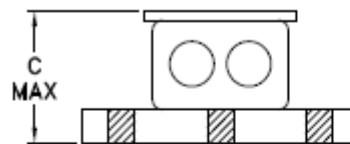
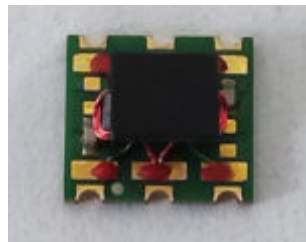
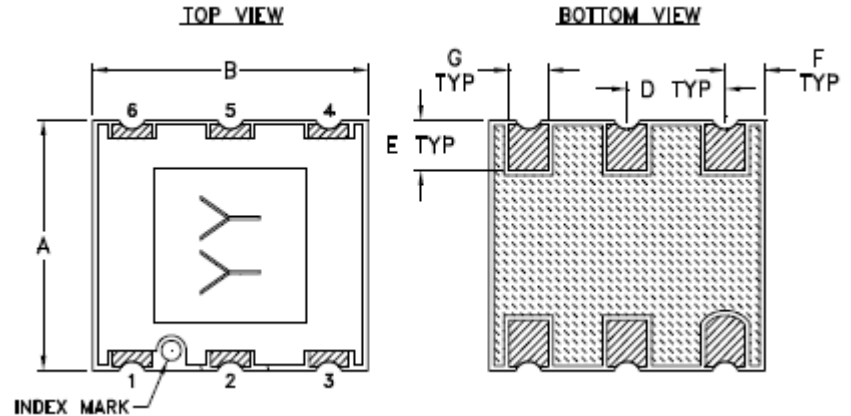
.Packaging 1000pcs per reel.

.used in 50 ohm systems.

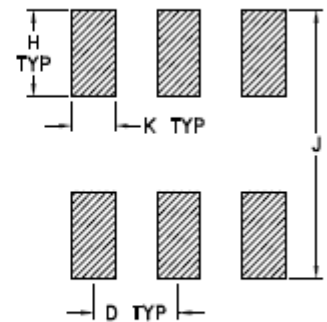
.Weld connect.

ROHS COMPLIANT

OUTLINE DRAWING



Suggested Layout,
Tolerance to be within ± 0.002



NOTES:

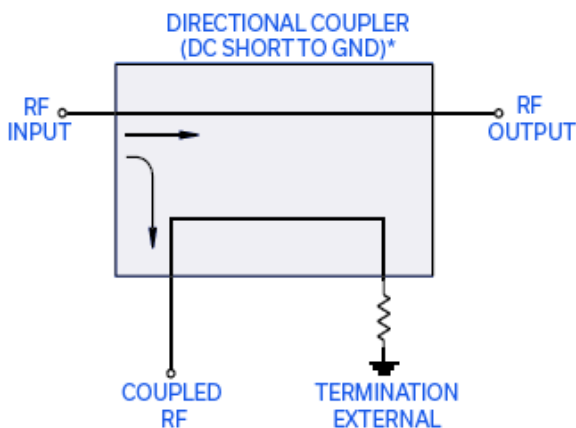
1. DENOTES METALLIZATION
2. DENOTES SOLDER RESIST

DIMENSIONS (Inches) mm

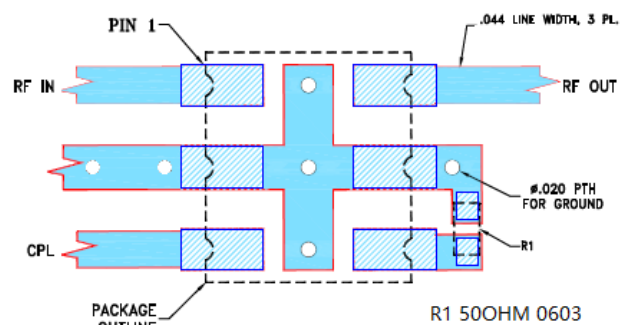
A	B	C	D	E	F	G	H	J	K
.250	.280	.140	.100	.050	.040	.040	.100	.310	.050
6.35	7.11	3.56	2.54	1.27	1.02	1.02	2.54	7.87	1.27

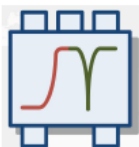
Weight: 0.35 grams

ELECTRICAL SCHEMATIC



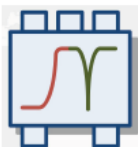
SUGGESTED PCB LAYOUT



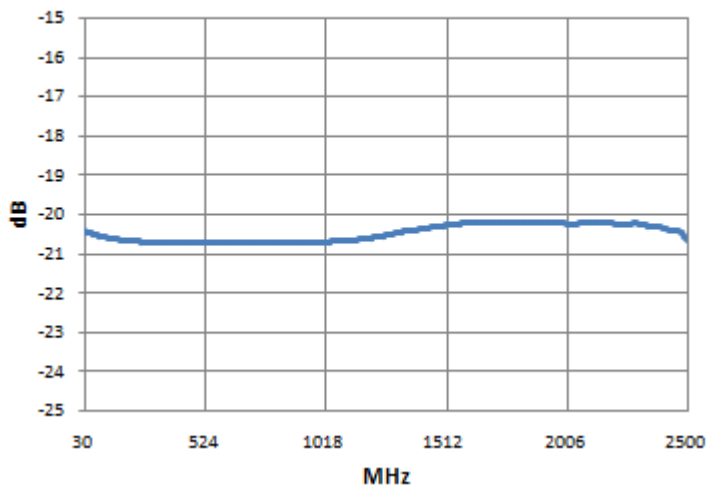
**JY-RDC-20-252-5WX+ 20db coupler**

PIN	FUNCTION
1	Input
2	Ground
3	Coupled
4	External 50 ohms
6	Output

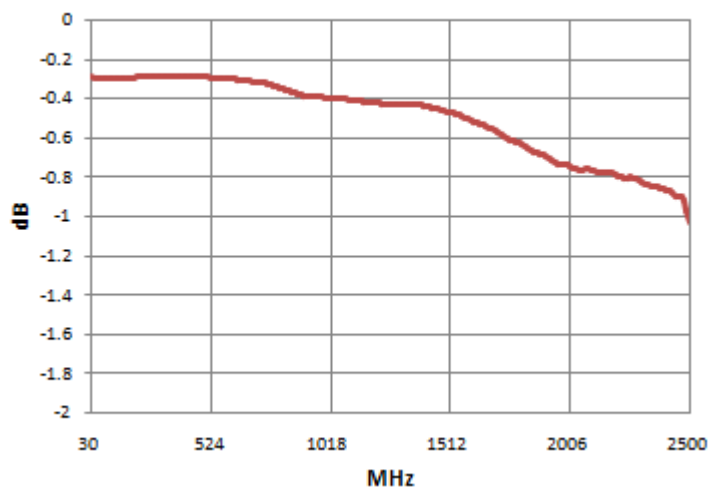
Electrical Specifications: TA=25°C, Zo=50Ω					
Parameter	Test Conditions	Units	Min.	Typ.	Max.
Coupling	30-2500MHz	dB	19.5	20.5	21
Coupling Flatness(±)	30-2500MHz	dB	---	1.2	2.0
Mainline Loss	30-1000MHz	dB	---	0.4	0.8
	1000-2000MHz	dB	---	0.6	1.1
	2000-2500MHz	dB	---	1.1	1.6
Input return loss	30-1000MHz	dB	17	22	-
	1000-2000MHz	dB	16	20	-
	2000-2500MHz	dB	14	18	-
Output return loss	30-1000MHz	dB	17	22	-
	1000-2000MHz	dB	14	20	-
	2000-2500MHz	dB	11	15	-
Coupling Return Loss	30-1000MHz	dB	13	18	-
	1000-2000MHz	dB	11	14	-
	2000-2500MHz	dB	10	13	-
Directivity	30-1000MHz	dB	---	20	-
	1000-2000MHz	dB	---	16	-
	2000-2500MHz	dB	---	14	-
Input Power		5W			
Test Impedance (50Ω,75Ω, etc.)		50OHM			
Operating Temperature		-40°C to +85°C			
Storage Temperature		-55°C to +100°C			



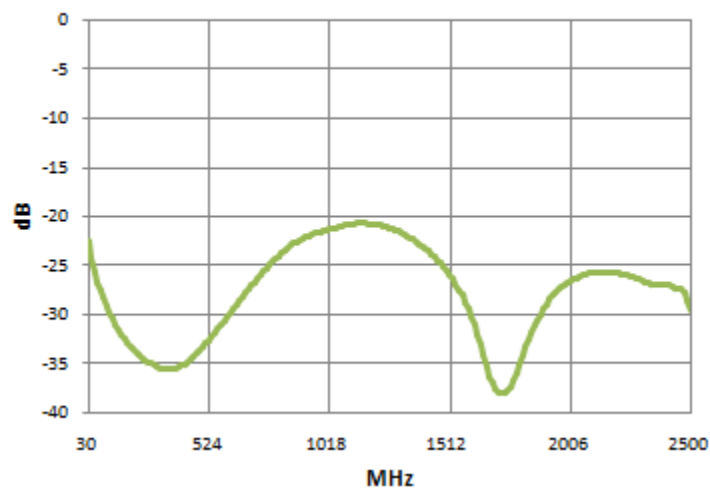
Coupling



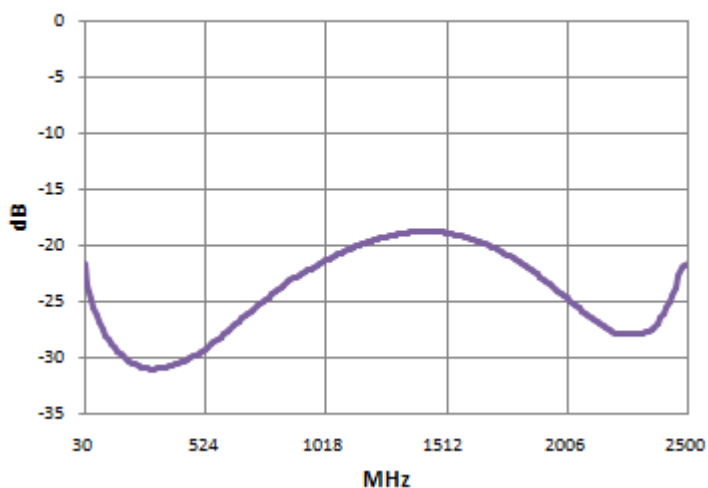
Mainline Loss



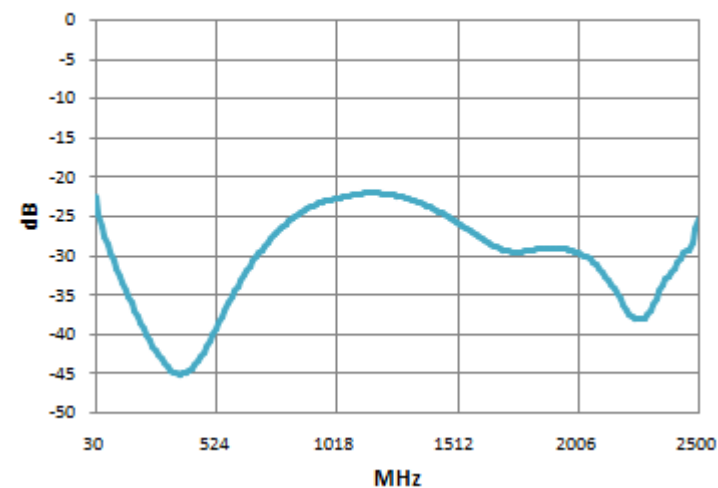
Input Return Loss



Coupling Return Loss



Output Return Loss



Directivity

