

**4Way 0° Divide Frequency: 80-520MHZ.****Features**

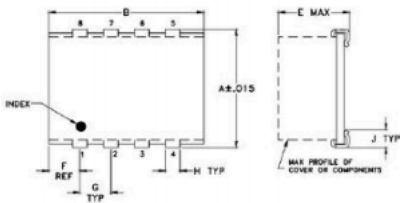
- high isolation, 35 dB typ.
- good input matching, VSWR 1.2 typ.
- good output matching VSWR, 1.1 typ.
- aqueous washable
- shielded case

Applications

- VHF/UHF
- receivers/transmitters
- instrumentation

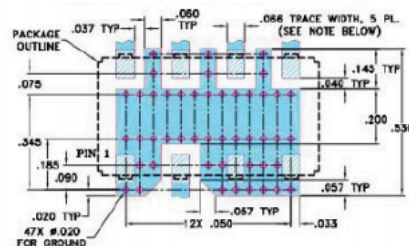
JY-JS4PS-1+**4 Way-0° 50Ω 80 to 520 MHz****electrical schematic****Transformer Electrical Specifications**

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 6.0 dB.		Phase Unbalance (Degrees) Max.	Amplitude Unbalance (dB) Max.
	Typ	min	Typ	max		
80-520	35	20	0.8	1.5	5	0.5

Outline Drawing**Outline Dimensions: Unit (mm)**

A	11.43	B	20.32
C	-	D	2.54
E	6.35	F	2.54
G	5.08	H	1.19
J	1.65	K	1.65
L	12.19	wt	1.70g

Demo Board MCL P/N: TB-215
Suggested PCB Layout (PL-101)



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC COPPER 1/2 OZ EACH SIDE. WIDTH MAY VARY.

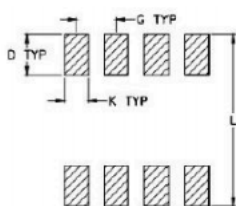
1V DCL M
2 BOTTOM
CONTINUOUS ROUND
WITH OBC (SOLDE
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Pin Connections

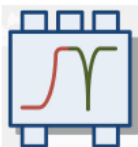
SUM PORT	2
PORT 1	8
PORT 2	7
PORT 3	6
PORT 4	5
GROUND	1,2,3

Maximum Ratings

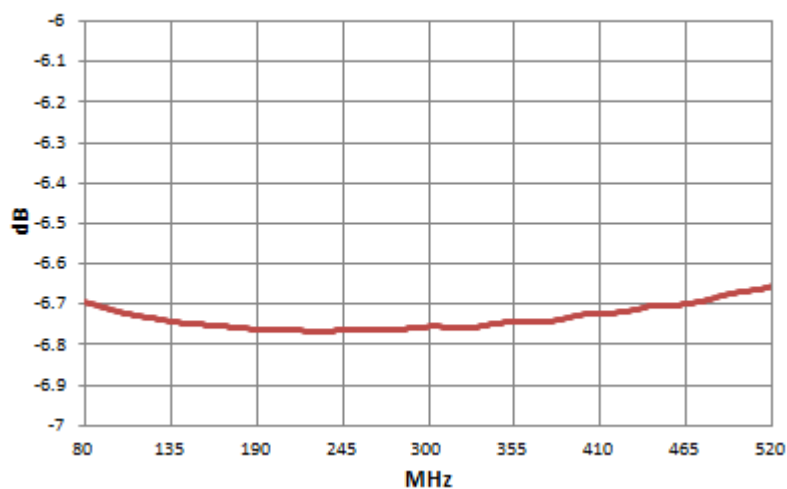
Operating Temperature	40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.75 W max.
Internal Dissipation	0.5W max.
Permanent damage may occur if any of these limits are exceeded	

PCB Land Pattern

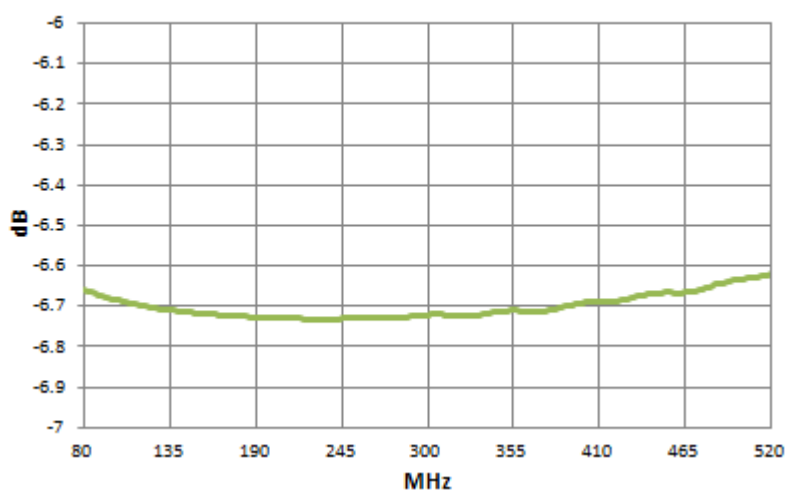
Suggested Layout,
Tolerance to be within ±002



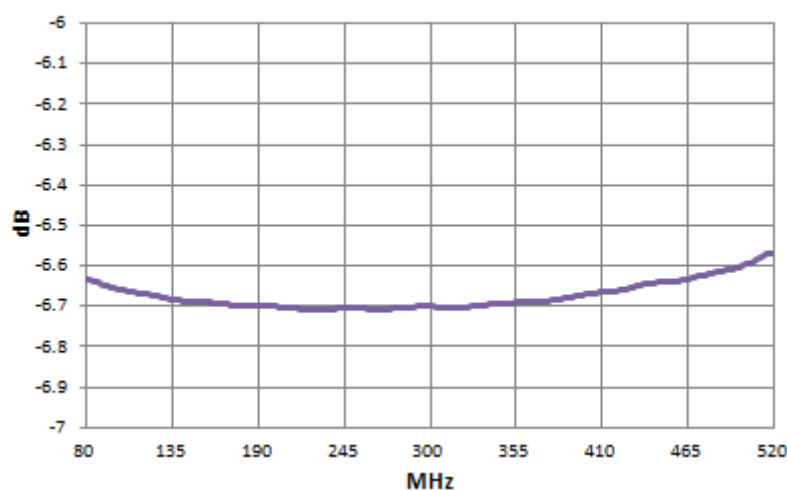
S-1



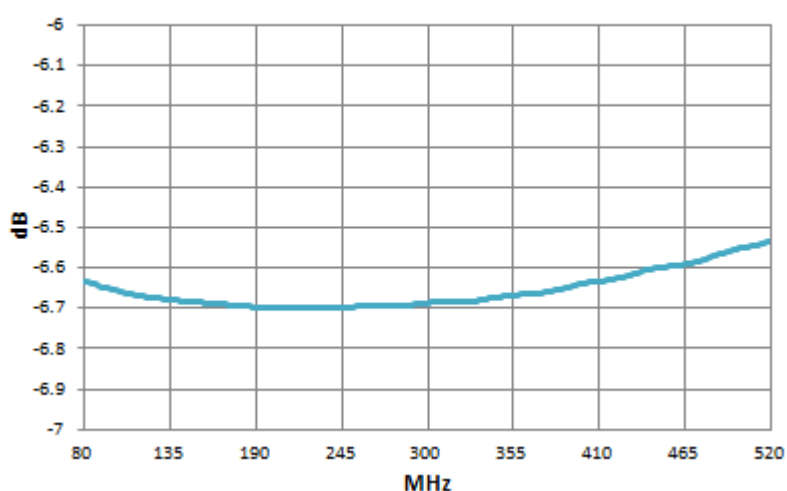
S-2



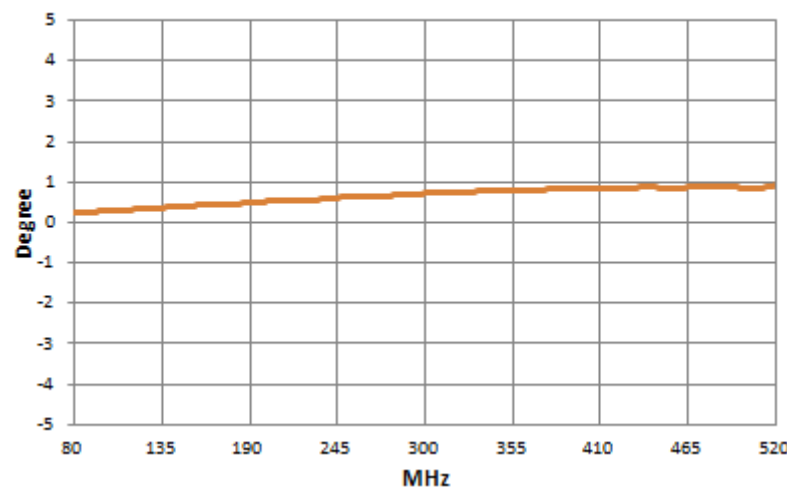
S-3



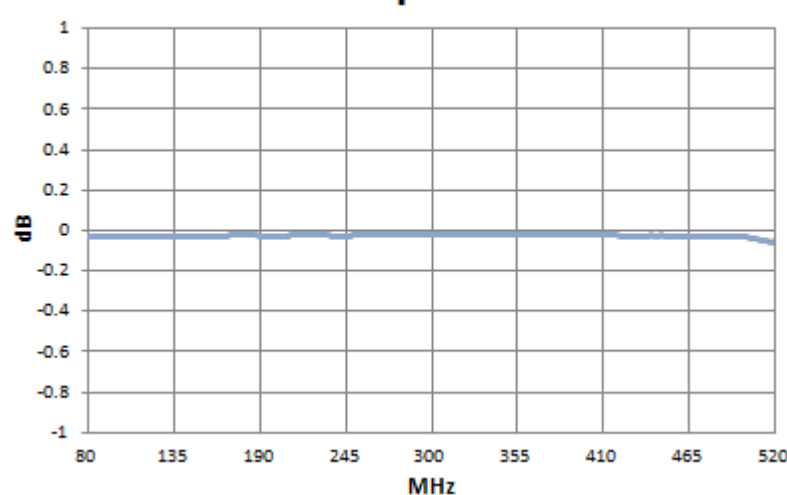
S-4

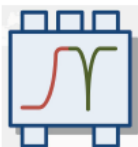


Phase

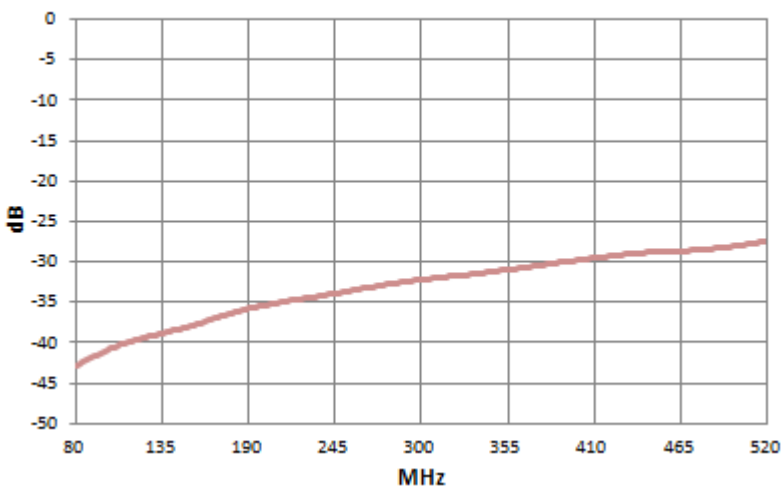


Amplitude

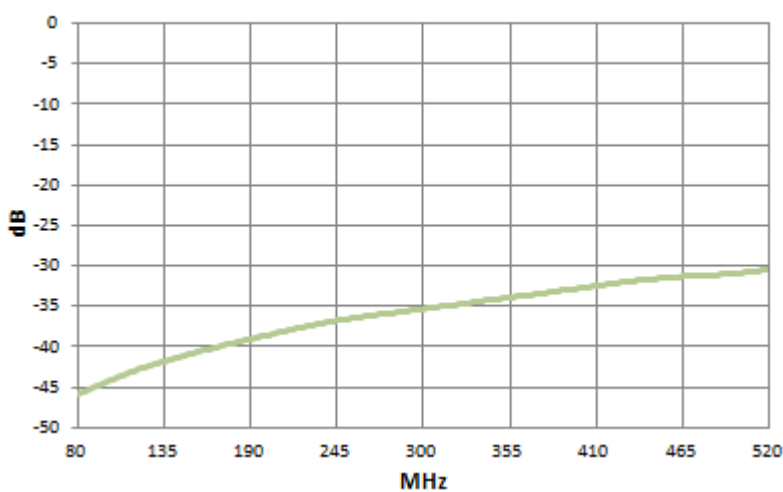




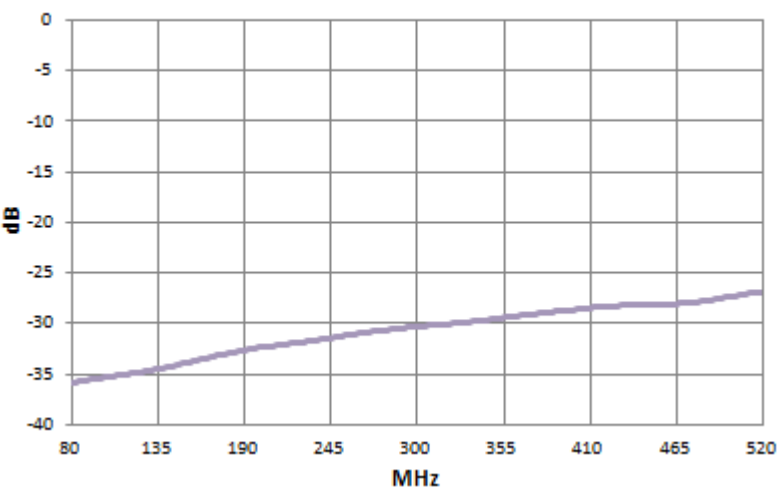
Isolation 1-2



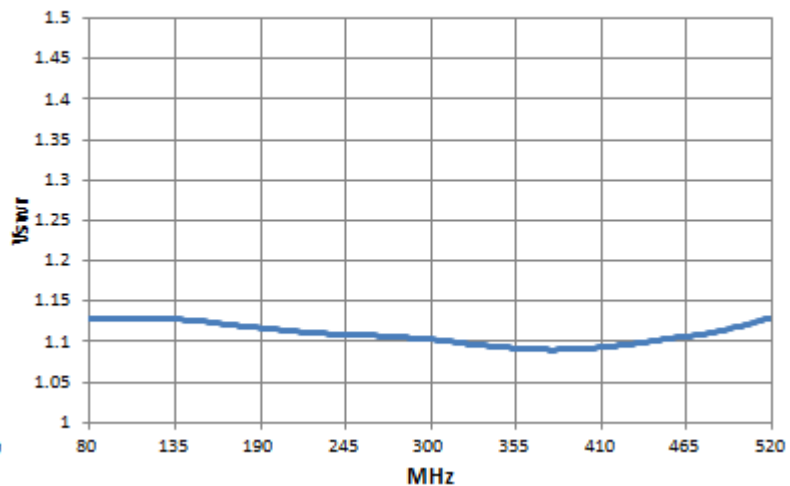
Isolation 2-3



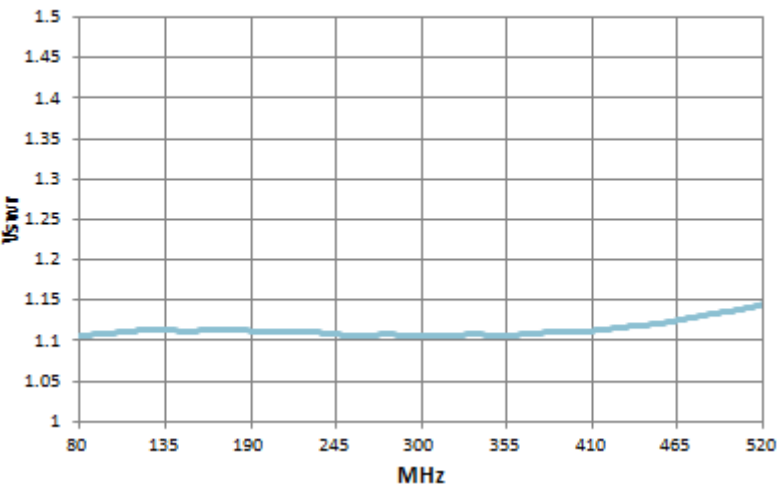
Isolation 3-4



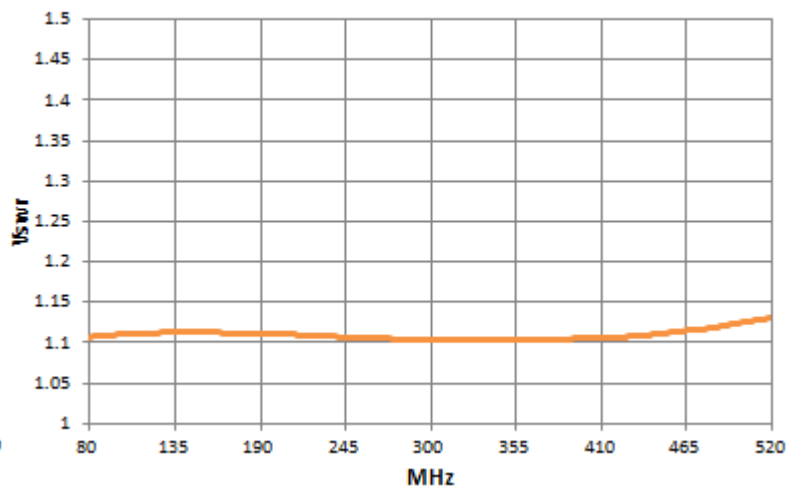
VSWR-S

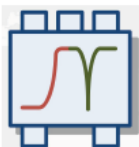


VSWR-1

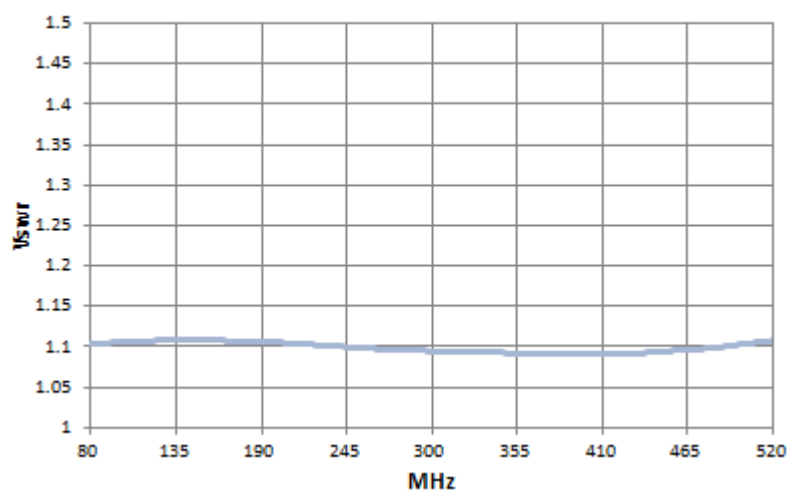


VSWR-2





VSWR-3



VSWR-4

