ANATECH ELECTRONICS, INC.

Manufacturer of RF & Microwave Products

ISO 9001 : 2000 REGISTERED FIRM

836-881 MHz Saw Duplexer

P/N: AM836-881SD340

Tx → Ant		Specifications		
Parameters Description	**Condition [MHz]**	**Minimum**	**Typical**	**Maximum**
Insertion Loss	824-849	-	2.0 dB	2.5 dB
Ripple	824-849	-	0.8 dB	1.4 dB
VSWR	824-849	-	1.9 dB	2.4 dB
Absolute Attenuation	869 - 894	40 dB	45 dB	-
	1648 – 1698	10 dB	16 dB	-
	2472 - 2547	2 dB	5 dB	-
Ant → Rx		**Specifications**		
Parameters Description	**Condition [MHz]**	**Minimum**	**Typical**	**Maximum**
Insertion Loss	869 - 894	-	2.6 dB	3.5 dB
Ripple	869 - 894	-	1.0 dB	2.0 dB
VSWR	869 - 894	-	1.6 dB	2.2 dB
Absolute Attenuation	824 – 849	50 dB	57 dB	-
	930 - 1200	30 dB	38 dB	-
	1200 - 1500	30 dB	45 dB	-
Tx → Rx		**Specifications**		
Parameters Description	**Condition [MHz]**	**Minimum**	**Typical**	**Maximum**
Isolation	824 - 849	54 dB	62 dB	-
	869 - 894	43 dB	52 dB	-

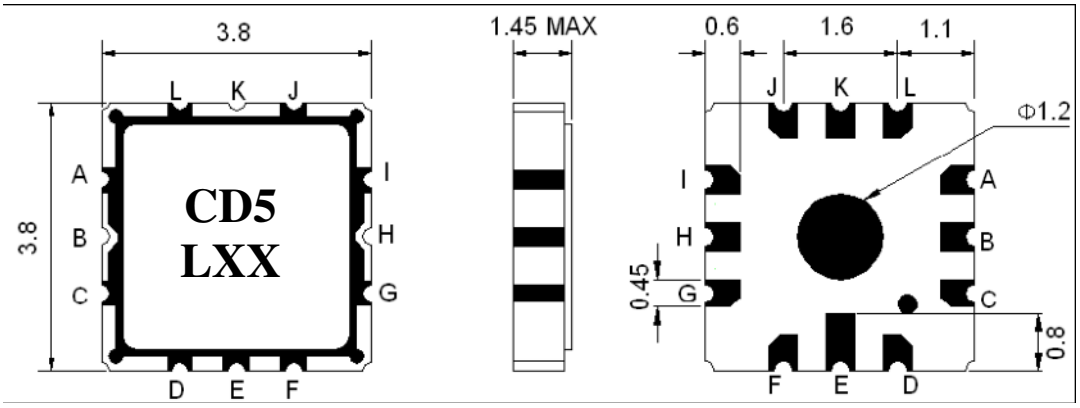
Parameters Description	Minimum	Typical	Maximum
Operation Temperature Range	-30°C	-	+85°C
Storage Temperature Range	-40°C	-	+85°C
Maximum DC Voltage	10 V		
Input Power	1.2 W > 50000 Hours, CW tone(Ta= +50°C)		
Input / Output Impedance	50Ω		
Size (L x W x H)	3.8 x 3.8 x 1.45		

ANATECH ELECTRONICS, INC., 70 Outwater Lane, Garfield, NJ 07026 Tel: (973) 772-4242 Fax: (973) 772-4646
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P/N: AM836-881SD340

Package Dimensions



Marking Descriptions	
C	CDMA800 Application
D	SAW Duplexer
5	Version
L	Package Type(LTCC)
X	Date Code(Year+Month)
X	Date Code(Day)

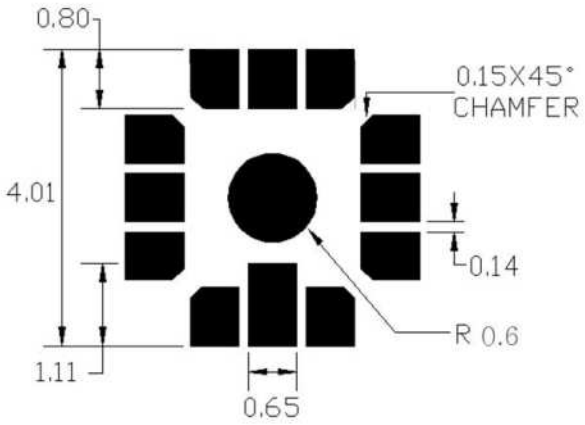
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
B	Receiver
K	Antenna
H	Transmitter

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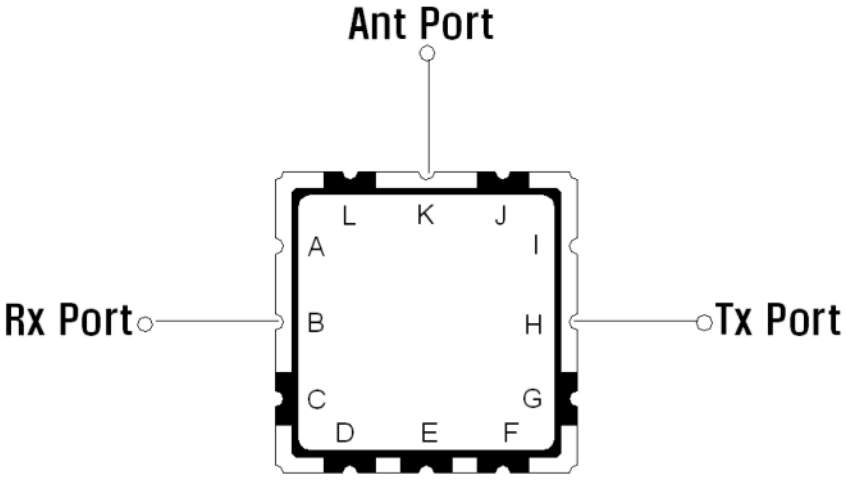
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Footprint:



Testing Environment



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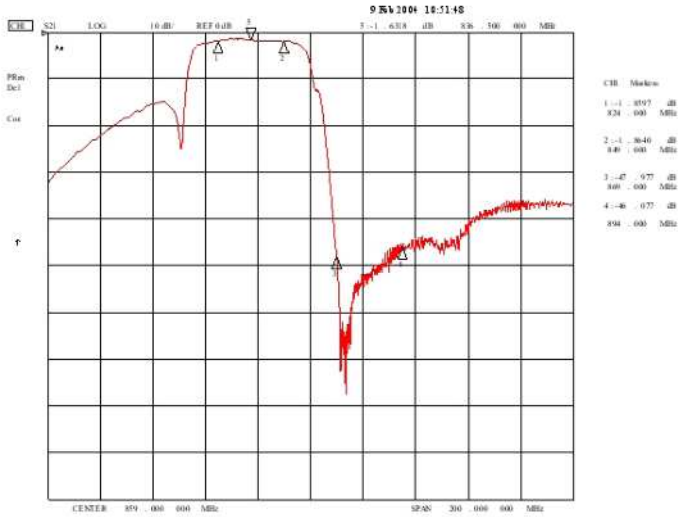
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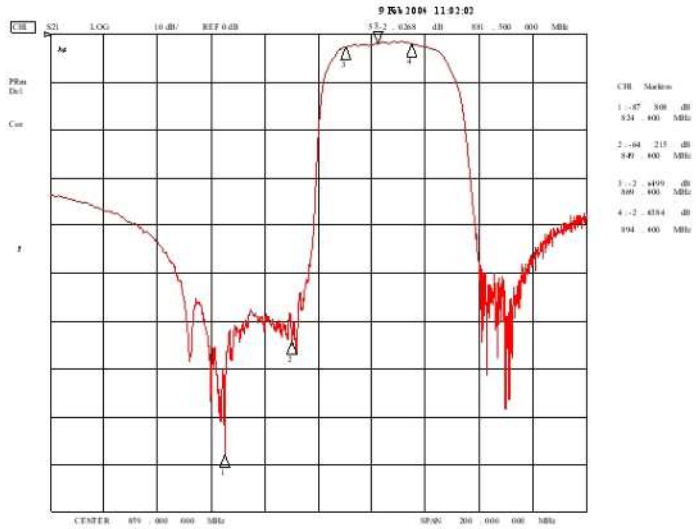
Frequency Characteristics:

Tx to Ant, Ant to Rx

Tx to Antenna
(Narrow Band)



Antenna to Rx
(Narrow Band)



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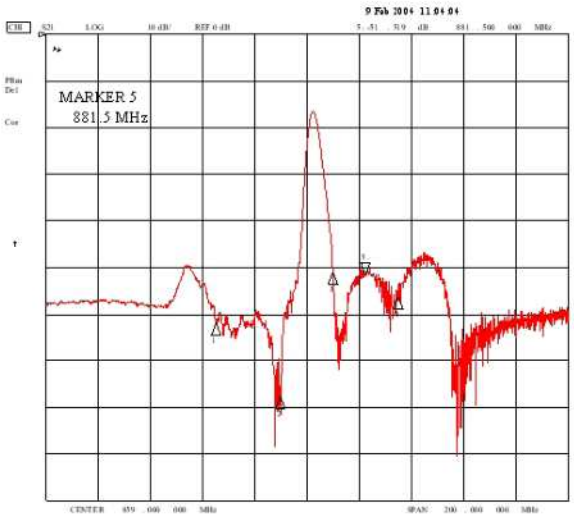
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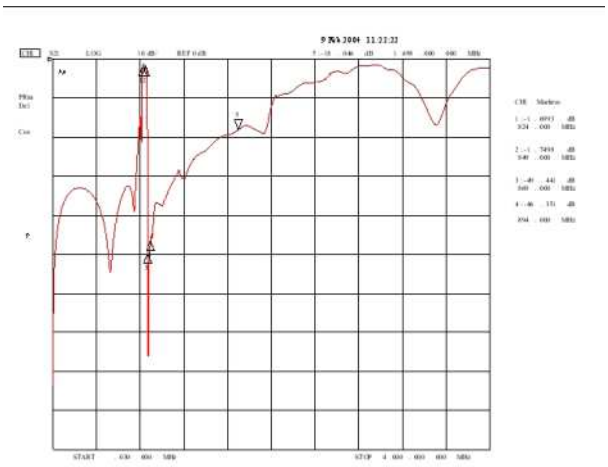
Isolation

Tx to Rx

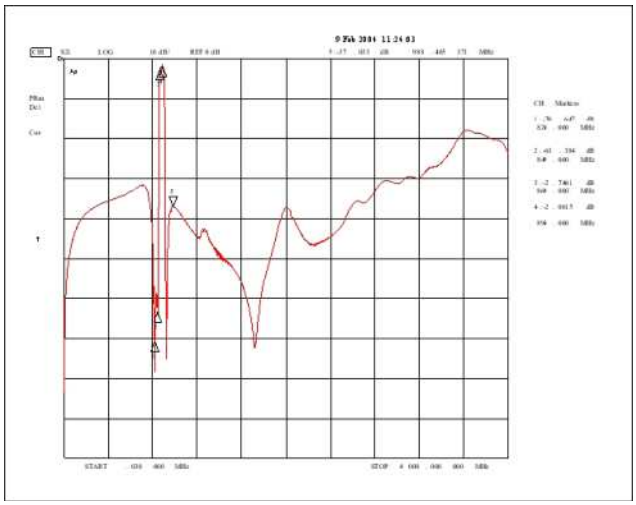


Wide Band

Tx to Ant:



Ant to Rx:



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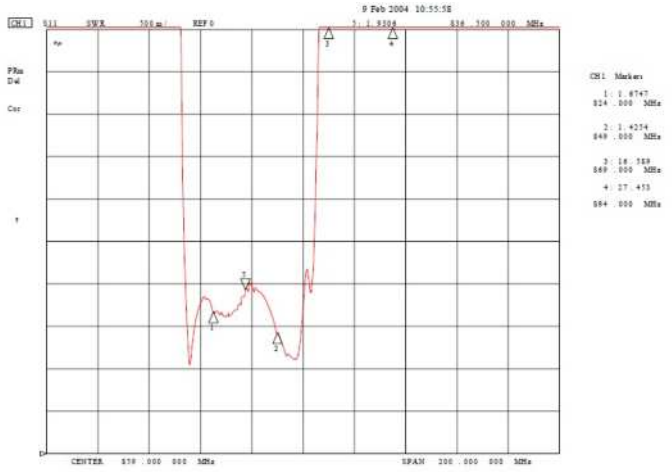
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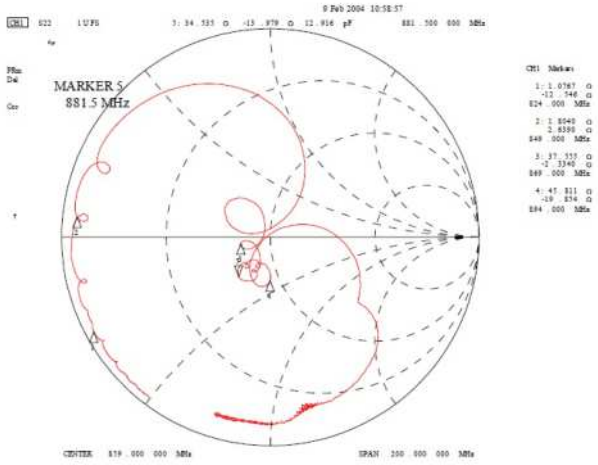
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Tx Port

VSWR

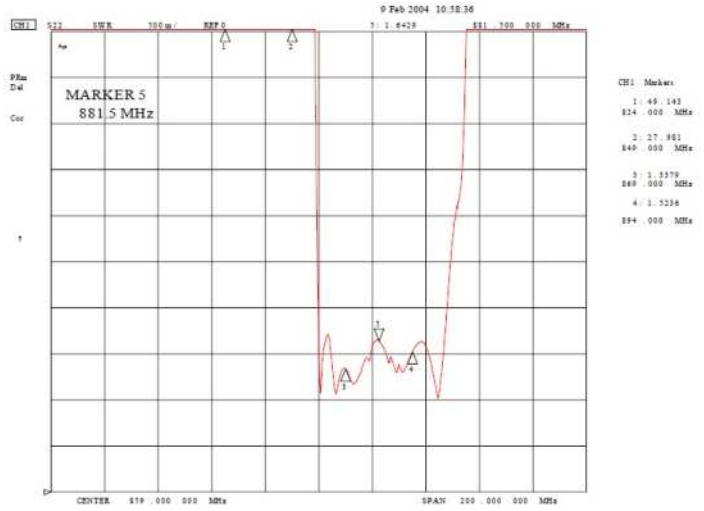


Smith Chart

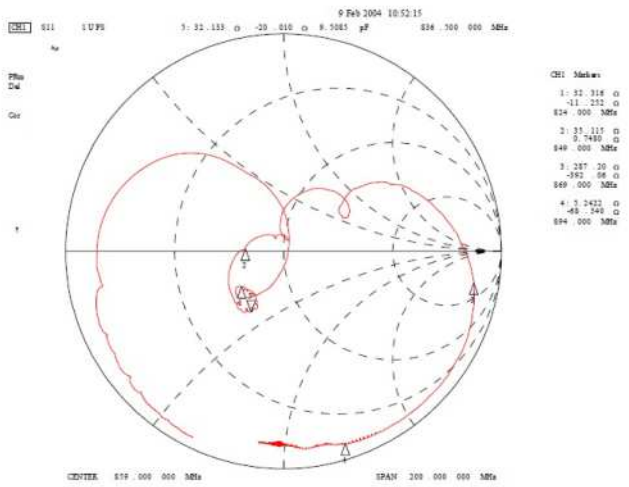


Rx Port

VSWR



Smith Chart



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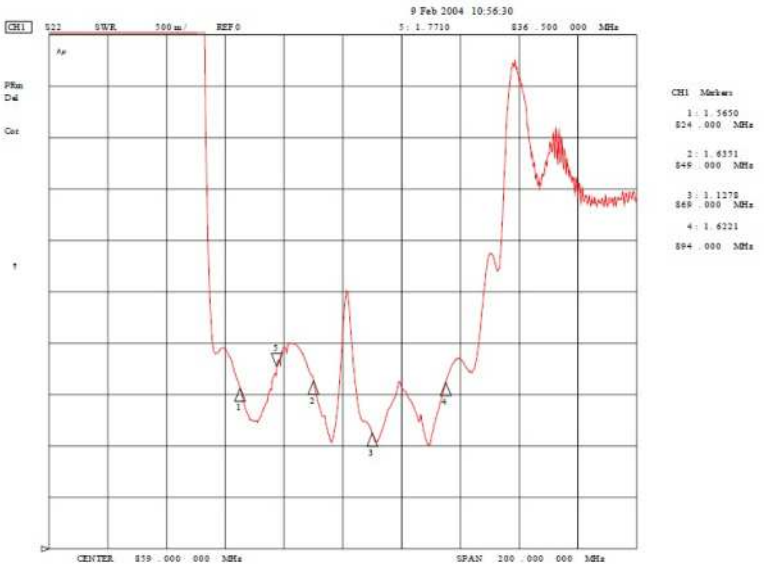
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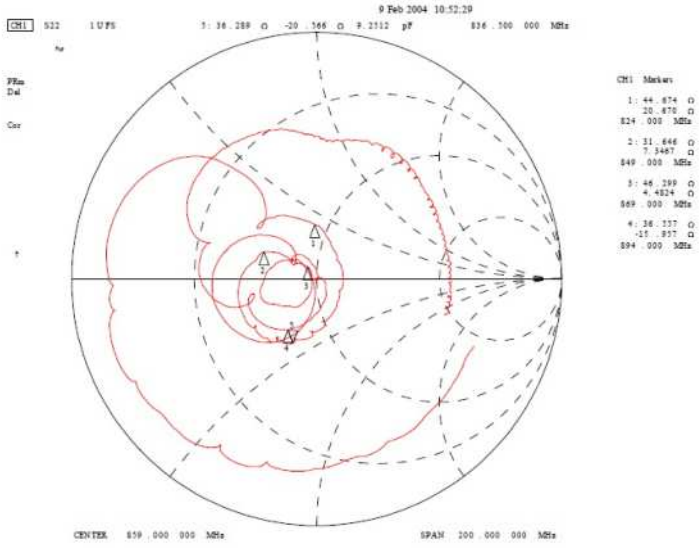
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Ant Port

VSWR



Smith Chart



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