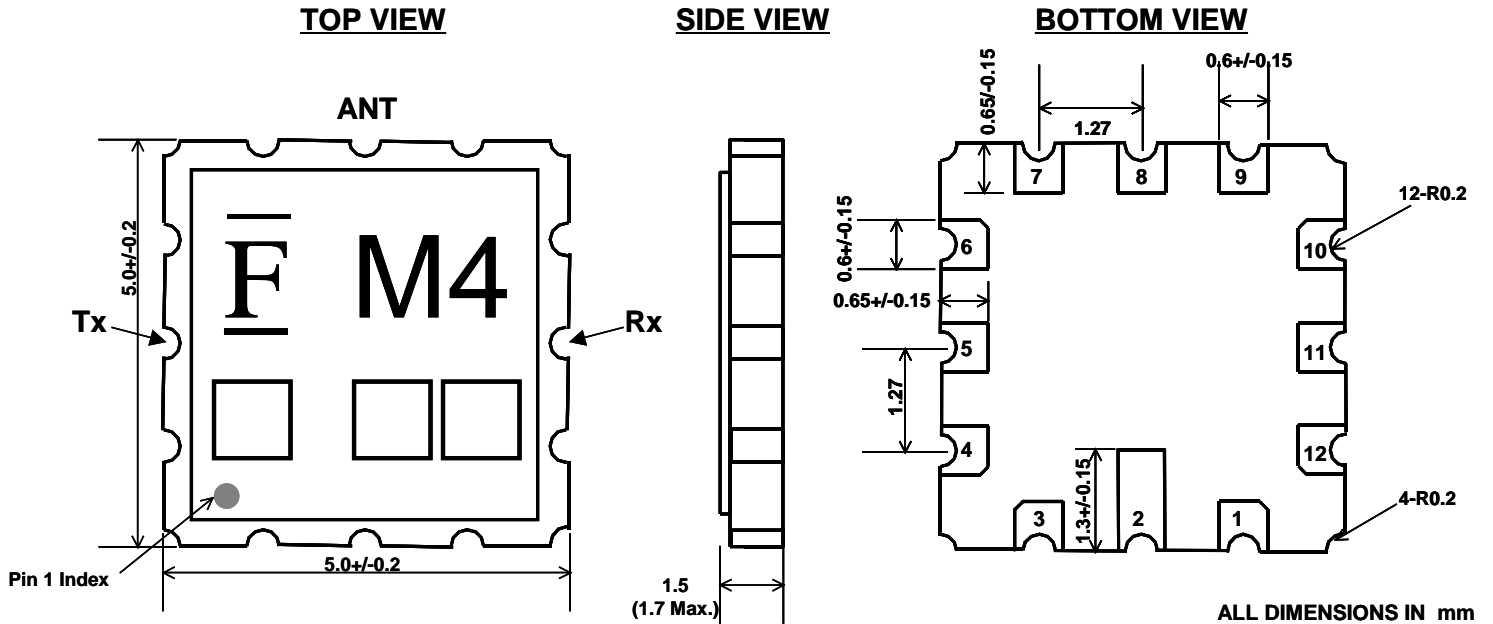


Customer Name	Standard	FUJITSU MEDIA DEVICES LIMITED	
System	AMPS/CDMA/TDMA SAW Duplexer	DATE	Dec.06.2002
FMD P/N	FAR-D5CM-881M50-D1M4	Version 2.1	Preliminary
Customer P/N		Reference No.	

Table 1 Electrical Specification

		Condition	FMD Current proposal			Unit
			Min	Typ.	Max	
Tx to ANT	Insertion loss	824-849MHz	-	2.0	2.5	dB
	Passband ripple	824-849MHz	-	0.8	1.3	dB
	Passband VSWR	824-849MHz	-	2.0	2.2	-
	Input Power	824-849 MHz	1.2 W >50000 Hours CW tone (Ta=+50 °C)			Watt
	Attenuation	779-804MHz	12	16	-	dB
869-894MHz		41	45	-	dB	
1648-1698MHz		10	15	-	dB	
2472-2547MHz		2	3	-	dB	
ANT to Rx	Insertion loss	869-894MHz	-	3.1	3.8	dB
	Passband ripple	869-894MHz	-	1.2	1.8	dB
	Passband VSWR	869-894MHz	-	2.1	2.3	-
	Attenuation	824-849MHz	50	53	-	dB
		930-1200MHz	35	42	-	dB
1200-1800MHz		35	42	-	dB	
Tx to Rx	Isolation	824-849 MHz	58dB min (+25+/-5°C) 55dB min (-30to+85°C) 60dB typ			dB
		869-894 MHz	45	48	-	dB
Storage Temperature			-40 to +100			°C
Operating Temperature			-30 to +85			°C
Package size	Length	-	5.0	5.2	mm	
	Width	-	5.0	5.2	mm	
	Height	-	1.5	1.7	mm	

Customer Name	Standard	FUJITSU MEDIA DEVICES LIMITED	
System	AMPS/CDMA/TDMA SAW Duplexer	DATE	Dec.06.2002
FMD P/N	FAR-D5CM-881M50-D1M4	Version 2.1	Preliminary
Customer P/N		Reference No.	



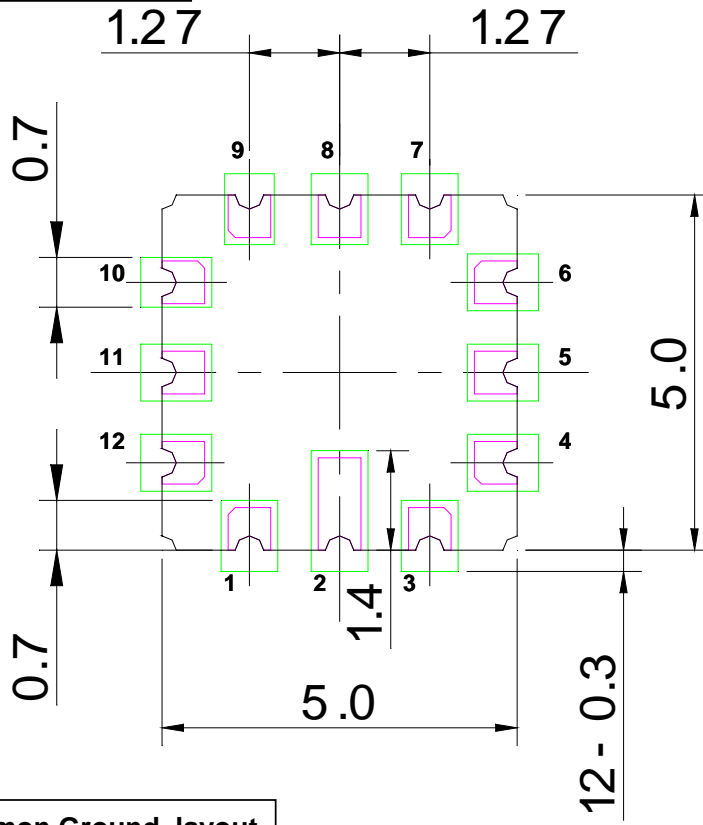
Pin No.	Pin name	Description
1	GND	Ground Pin
2	GND	Ground Pin
3	GND	Ground Pin
4	GND	Ground Pin
5	Rx	Receiver Pin
6	GND	Ground Pin
7	GND	Ground Pin
8	ANT	Antenna Pin
9	GND	Ground Pin
10	GND	Ground Pin
11	Tx	Transmitter Pin
12	GND	Ground Pin

Figure 1 Dimensions and Pin assignment

Customer Name	Standard	FUJITSU MEDIA DEVICES LIMITED	
System	AMPS/CDMA/TDMA SAW Duplexer	DATE	Dec.06.2002
FMD P/N	FAR-D5CM-881M50-D1M4	Version 2.1	Preliminary
Customer P/N		Reference No.	

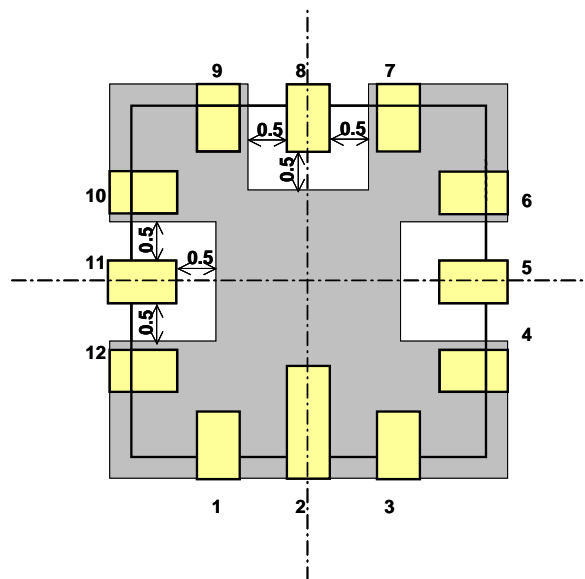
Isolated pad layout

Version 1.1



Pin No.	Symbol	Function
1	GND	Ground
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	Rx	Receiver
6	GND	Ground
7	GND	Ground
8	ANT	Antenna
9	GND	Ground
10	GND	Ground
11	Tx	Transmitter
12	GND	Ground

Common Ground layout

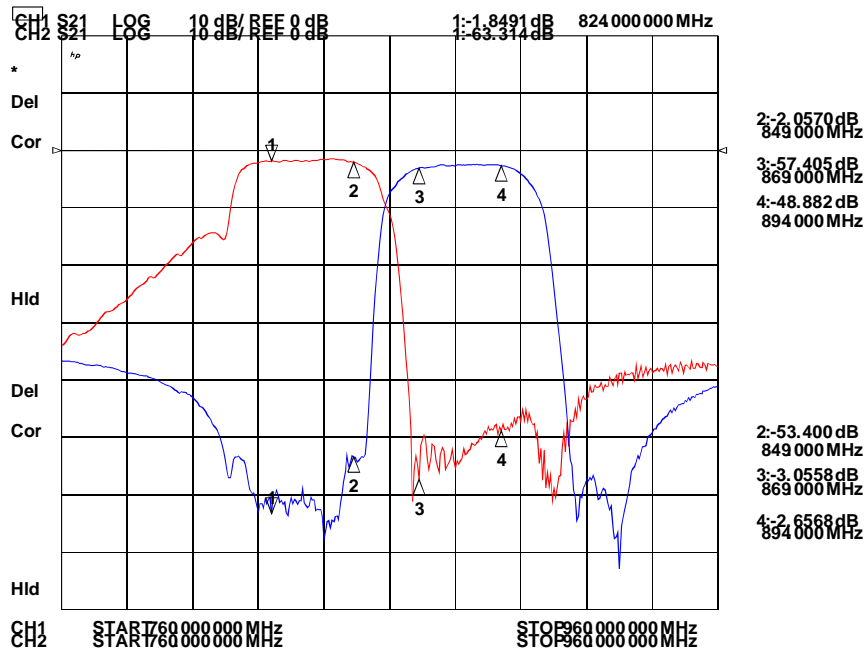


All Dimension in mm

Figure 2 Recommended foot print pattern

Customer Name	Standard	FUJITSU MEDIA DEVICES LIMITED	
System	AMPS/CDMA/TDMA SAW Duplexer	DATE	Dec.06.2002
FMD P/N	FAR-D5CM-881M50-D1M4	Version 2.1	Preliminary
Customer P/N		Reference No.	

Tx to Ant ,Ant to Rx



Tx to Rx Isolation

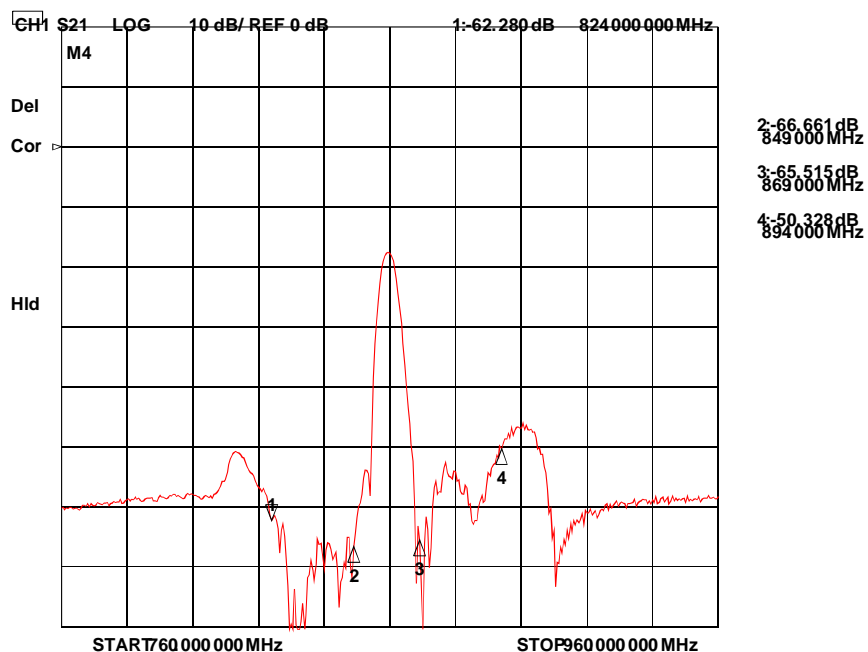


Figure 3-1 Electrical Characteristics

Customer Name	Standard	FUJITSU MEDIA DEVICES LIMITED	
System	AMPS/CDMA/TDMA SAW Duplexer	DATE	Dec.06.2002
FMD P/N	FAR-D5CM-881M50-D1M4	Version 2.1	Preliminary
Customer P/N		Reference No.	

Tx to Ant

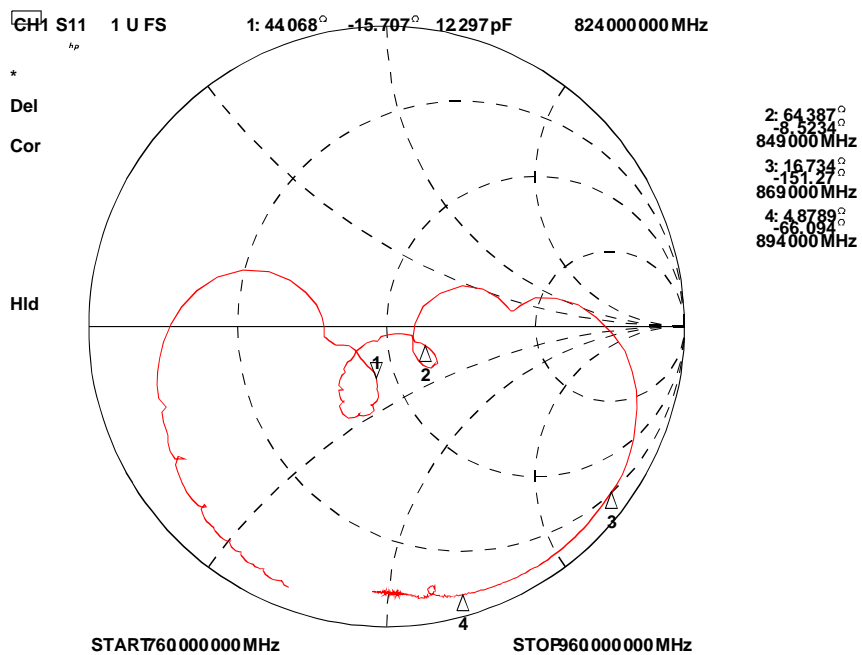
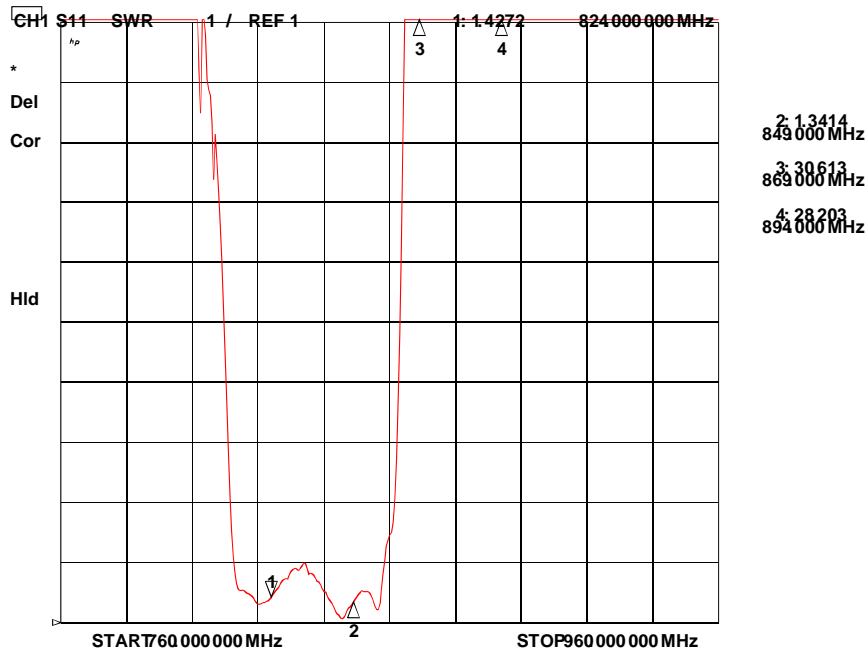


Figure 3-2 Electrical Characteristics

Customer Name	Standard	FUJITSU MEDIA DEVICES LIMITED	
System	AMPS/CDMA/TDMA SAW Duplexer	DATE	Dec.06.2002
FMD P/N	FAR-D5CM-881M50-D1M4	Version 2.1	Preliminary
Customer P/N		Reference No.	

Rx to Ant

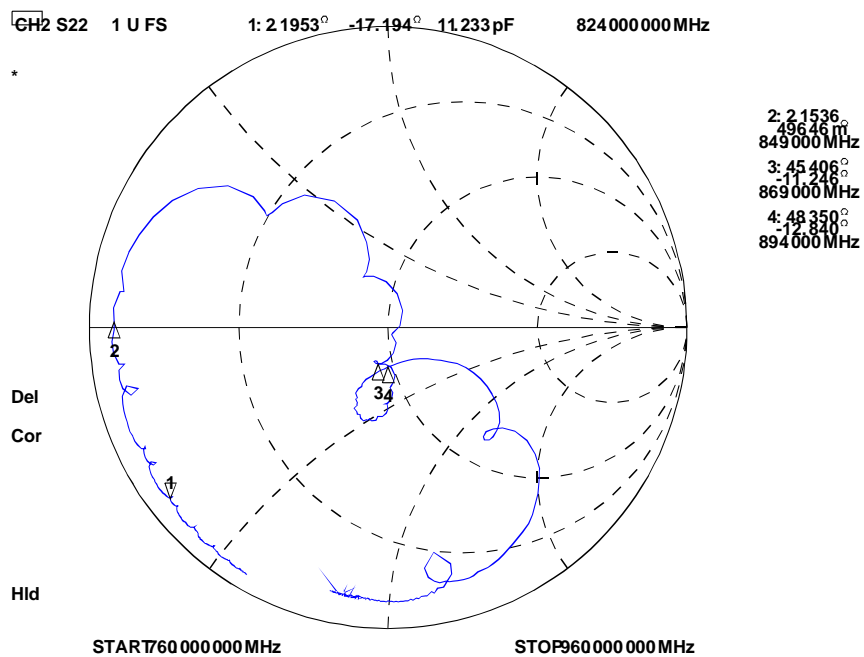
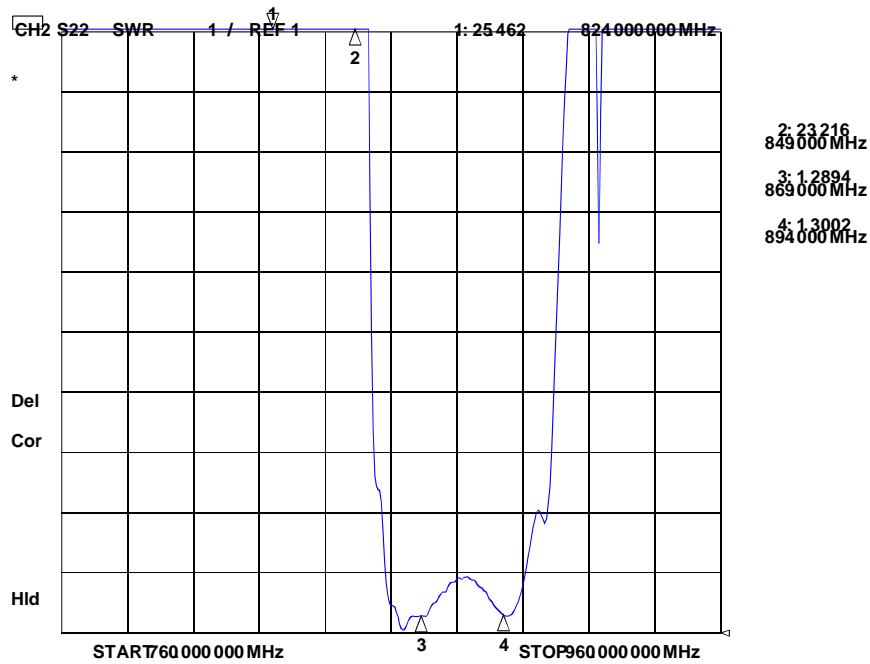


Figure 3-3 Electrical Characteristics

Customer Name	Standard	FUJITSU MEDIA DEVICES LIMITED	
System	AMPS/CDMA/TDMA SAW Duplexer	DATE	Dec.06.2002
FMD P/N	FAR-D5CM-881M50-D1M4	Version 2.1	Preliminary
Customer P/N		Reference No.	

Ant to Rx

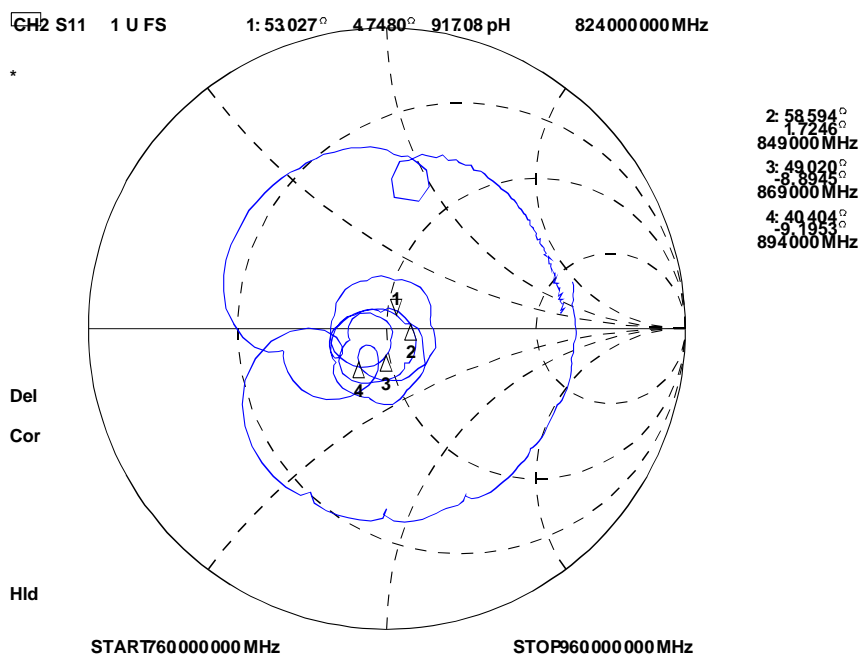
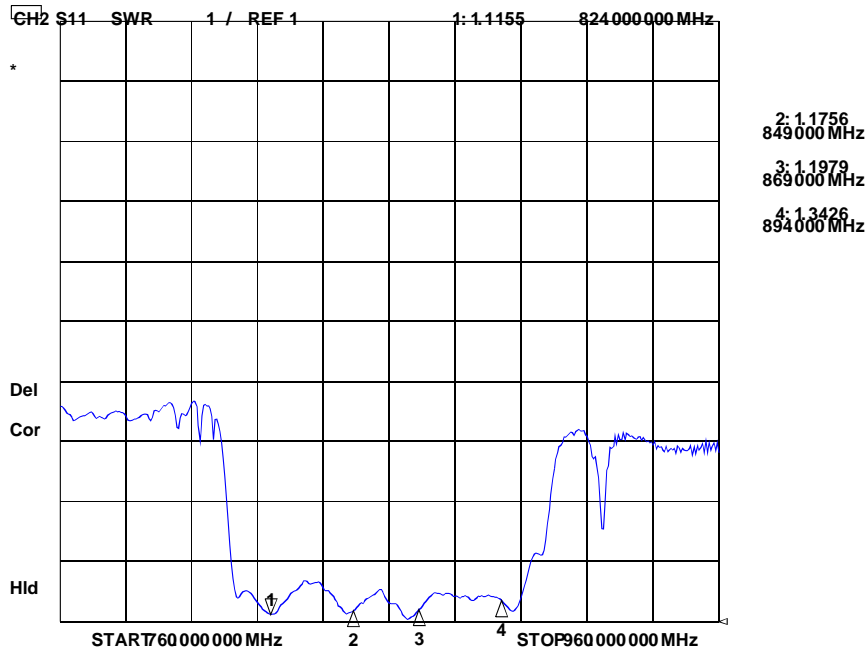
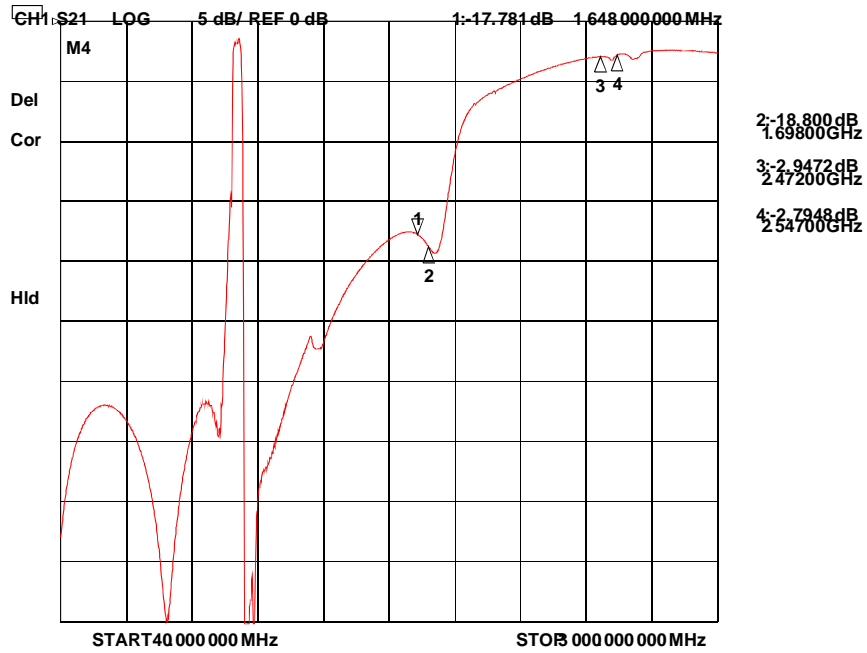


Figure 3-4 Electrical Characteristics

Customer Name	Standard	FUJITSU MEDIA DEVICES LIMITED	
System	AMPS/CDMA/TDMA SAW Duplexer	DATE	Dec.06.2002
FMD P/N	FAR-D5CM-881M50-D1M4	Version 2.1	Preliminary
Customer P/N		Reference No.	

Tx to Ant



Ant to Rx

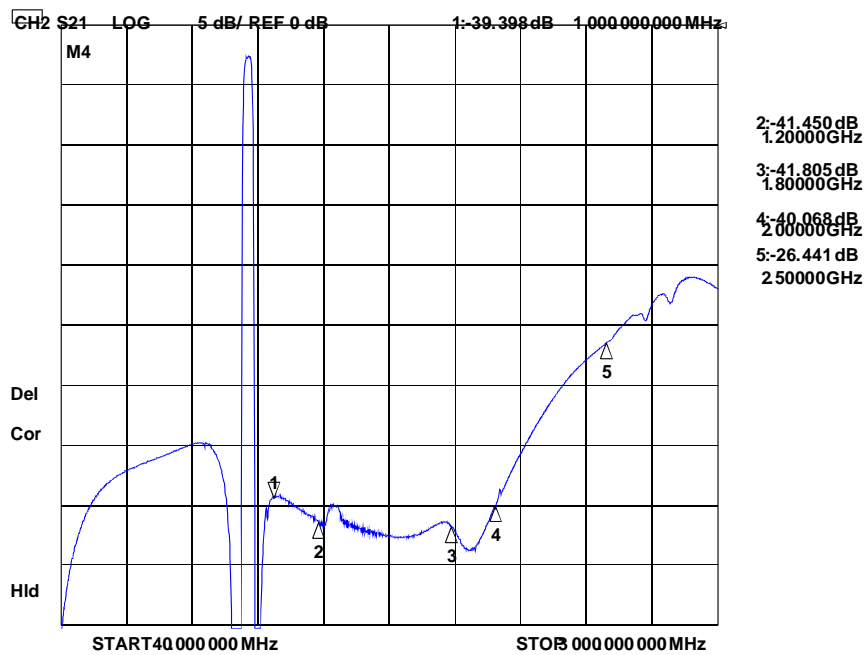


Figure 3-5 Electrical Characteristics