

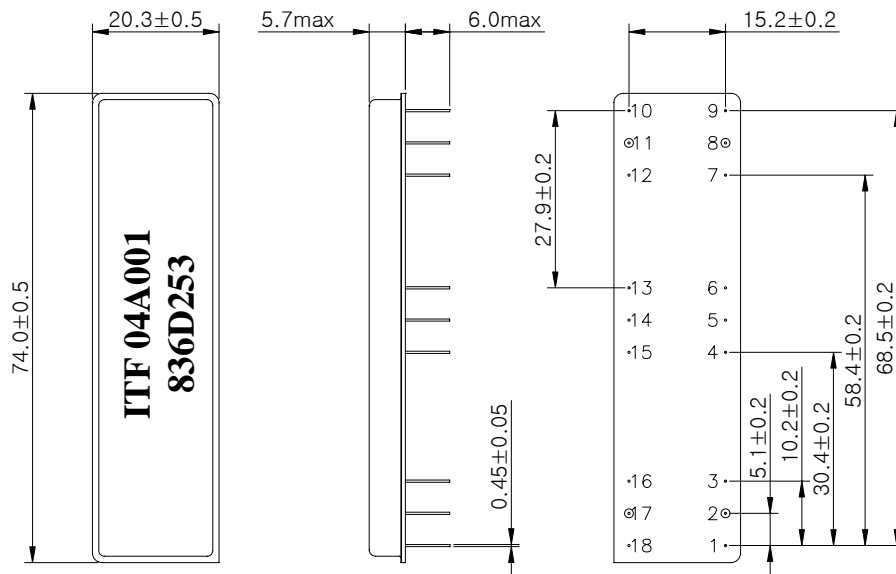
SAW Delay-Line 836D253



1. Features

- CDMA RF Delay-Line
- Single-Ended Operation
- DIP Package
- Maximum Storage Temperature Range : -40°C ~ 85°C
- Electrostatics Sensitive Device (ESD)

2. Package Dimension



Package : D7420

Dimensions shown are nominal in millimeters
 Base : Fe(SPCC), Au plating over Ni plated
 Cap : Cu & Cr Alloy, Ni Plated
 Termination : Kovar, Au Plated

Pin Configuration	
17	Input
8	Output
2, 11	Ground
Others	Case ground



ITF Co., Ltd.
 102-901, Bucheon Technopark 364,
 Samjeong-Dong, Ojeong-Gu, Bucheon-City,
 Gyeonggi-Do, Korea 421-809

Part No.	836D253	
Rev. Date	2004-05-27	
Rev.	ND1005-CS02	1/5

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3. Specifications

Fo = 836.5 MHz


Terminating source impedance : 50Ω and matching network

Terminating load impedance : 50Ω and matching network

		Minimum	Typical	Maximum
Center Frequency	MHz	-	836.5	-
Insertion Loss	dB	-	30.0	35.0
3dB Bandwidth	MHz	40.0	48.0	-
30dB Bandwidth	MHz	-	93.5	-
Amplitude Ripple (Fo +/- 12.5 MHz)	dB	-	0.8	1.0
Group Delay Variation (Fo +/- 12.5 MHz)	nsec	-	50	200
Absolute Delay	usec	14.9	15.02	15.1
Ultimate Rejection	dB	-	35	-
Temperature Coefficient of Frequency	ppm/°C	-	-94	-

Notes :

- 1) All specifications are based on the matching schematic shown below
- 2) All specifications are measured by Agilent Network analyzer and full 2 port calibration at room temperature
- 3) All attenuation measurements are measured relative to insertion loss

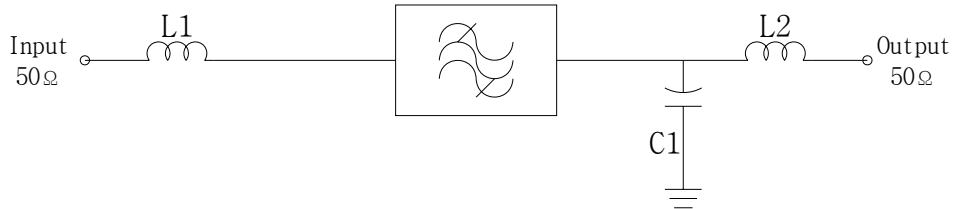
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4. Matching Schematic

(Actual matching values may vary due to PCB layout and parasitics)



$$L1 = L2 = 8.2 \text{ nH}$$

$$C1 = 2 \text{ pF}$$

5. Marking Configuration


ITF¹⁾04A001²⁾

836D253³⁾

1) Manufacturer name

2) Lot Number

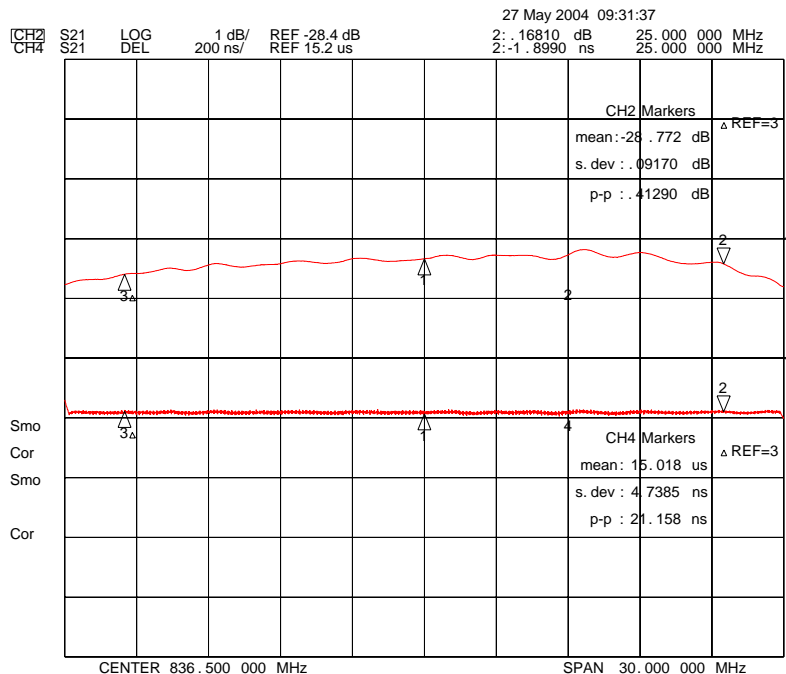
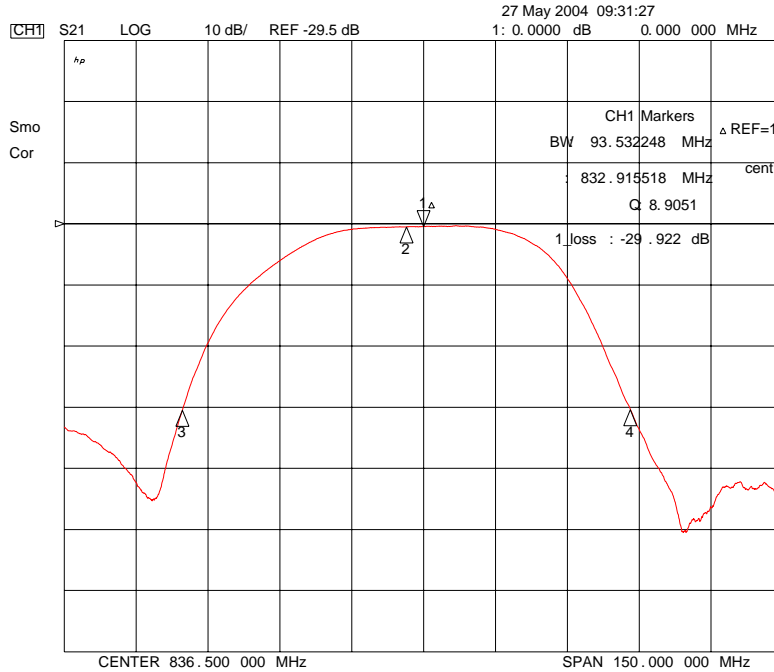
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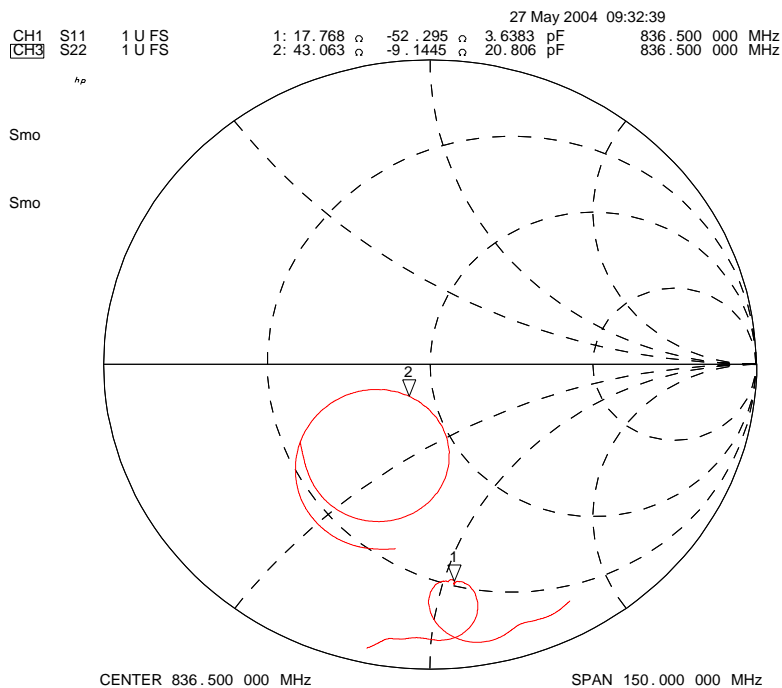
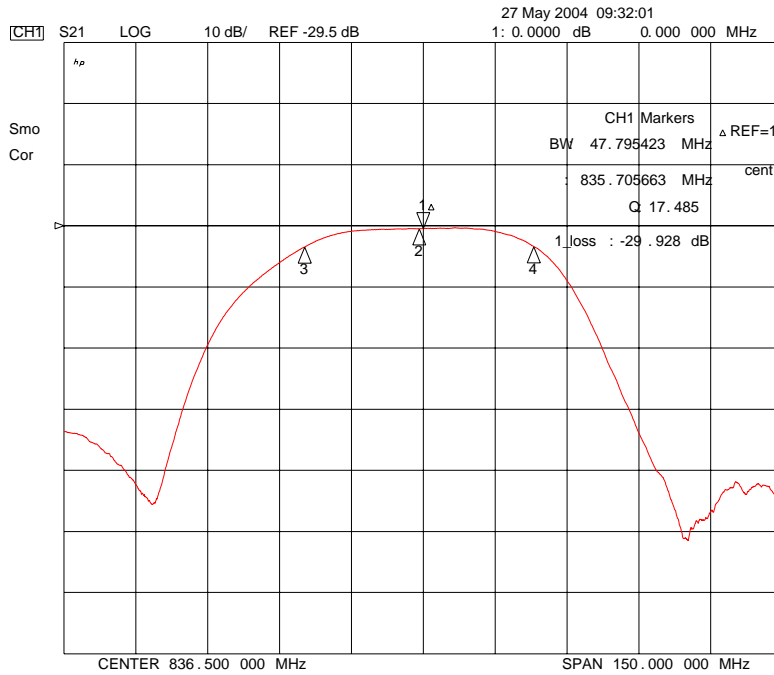


6. Typical Performance (at +25°C)



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