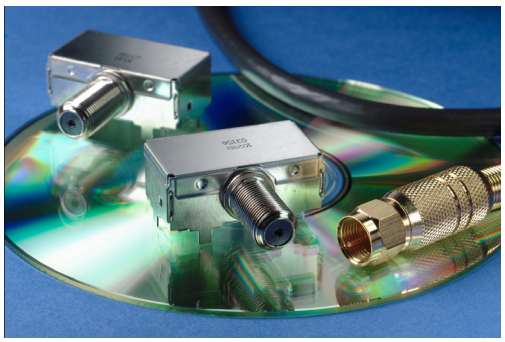
DIP1A Series

DIPLEXER FOR CABLE MODEM / DIGITAL SET-TOP BOX

DESCRIPTION

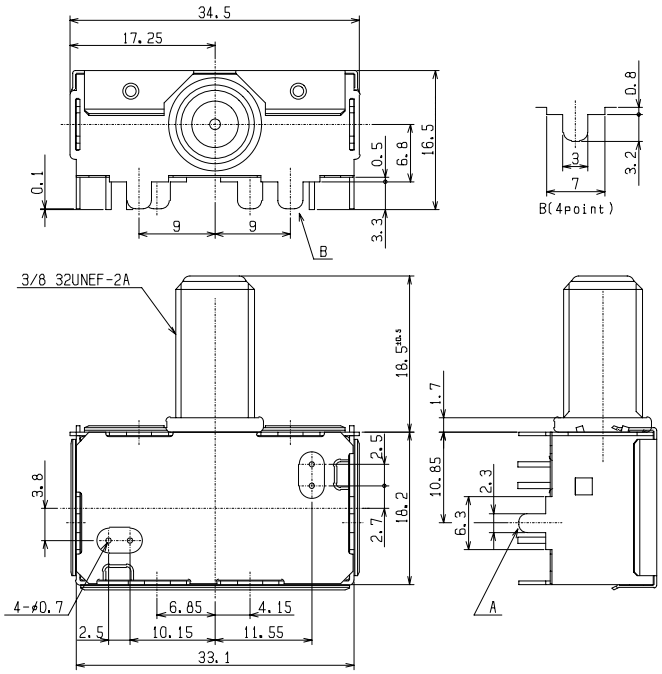
The TOKO DIP1A Series of wirewound diplexers contain an integrated coaxial F-connector and are specifically designed for DOCSIS 2.0 broadband communication platforms including cable modems, digital set-top boxes, and residential gateways. Ideal for digital silicon tuner applications, TOKO's RF filter design expertise provides for excellent insertion loss and rejection performance in an economical, fully shielded, and durable structure.



FEATURES

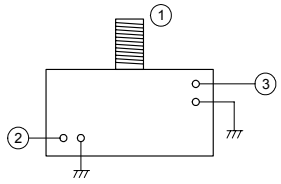
- TOKO Product Type: **DIP1A**
- Fully Shielded Structure
- Integrated F-connector
- 75Ω Ports
- DOCSIS 1.0/1.1/2.0 Compliant
- Surge Protection Circuit
  - Bellcore 1089, Surge 1 First Level
- Operating Temperature: 0°C to + 70°C
- Storage Temperature: - 40°C to + 70°C
- Humidity: 30 to 85% RH (w/out condensation)
- Detailed specifications available upon request.

DIMENSIONS



Tolerance: ±0.3mm
Units: mm

CONNECTIONS (BOTTOM VIEW)



1. F-connector (75Ω)
2. Downstream (HPF) (75Ω)
3. Upstream (LPF) (75Ω)

ELECTRICAL SPECIFICATIONS

TOKO Part Number	Region of Application	Low Pass Filter Passband (MHz)	High Pass Filter Passband (MHz)	Impedance (Ω)	Detailed Specifications
R975ACITN-1029B	North America	5~42	88~860	75	Note 1
R975ACJVN-1041	Europe, China	5~65	108~860	75	Note 1
R975ACITN-1036B	Japan	10~55	90~770	75	Note 1

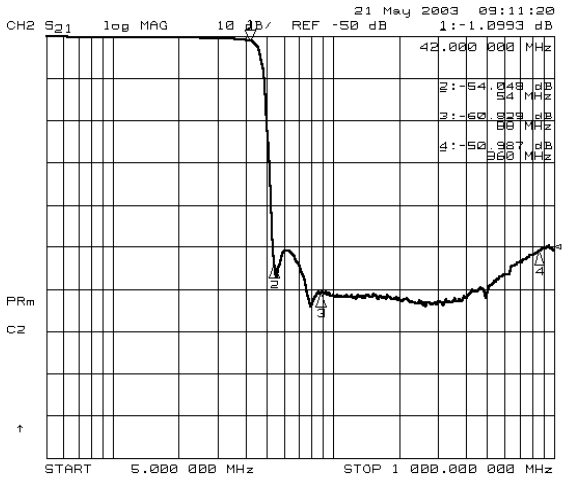
Note 1: Detailed specifications to qualified customers available upon request. Contact TOKO America for details http://www.tokoam.com/.

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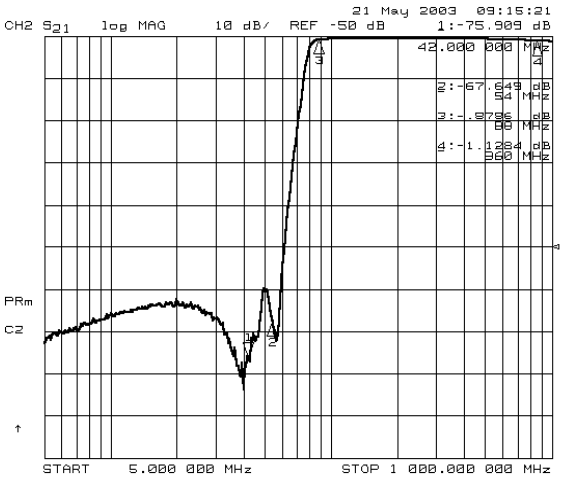
TYPICAL CHARACTERISTICS

R975ACITN-1029B (North America)

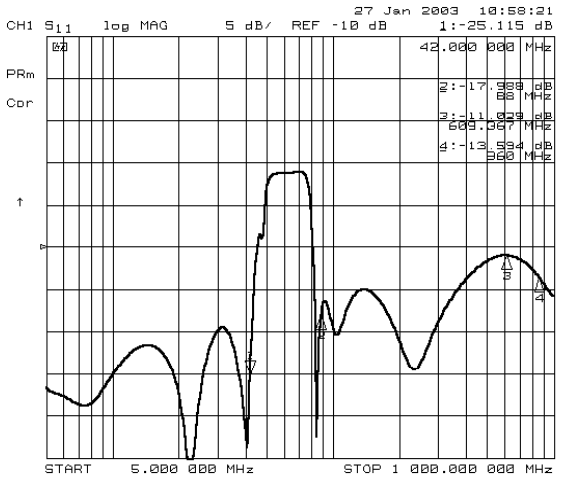
Attenuation and Insertion Loss (TX to Cable, 75Ω)



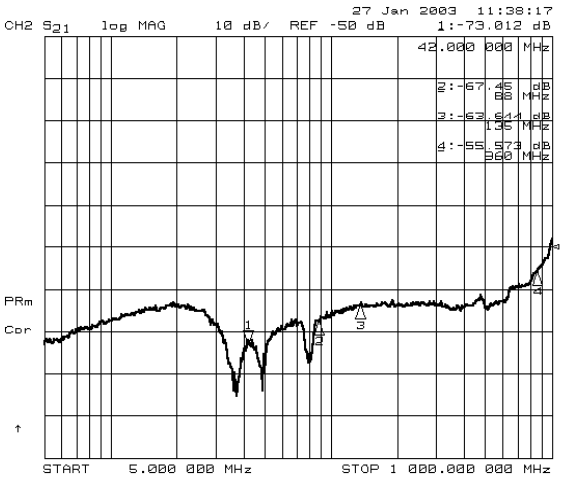
Attenuation and Insertion Loss (Cable to RX, 75Ω)



Coaxial Port Return Loss



RX-TX Isolation

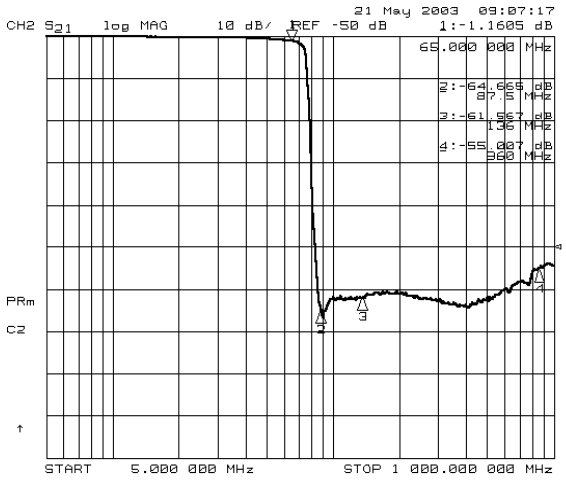


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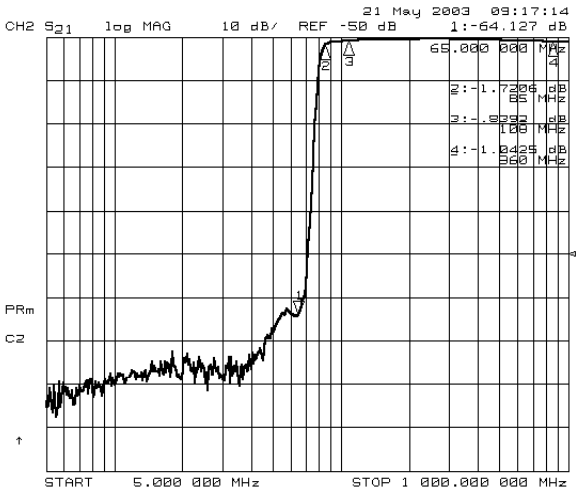
TYPICAL CHARACTERISTICS

R975ACJVN-1041 (Europe, China)

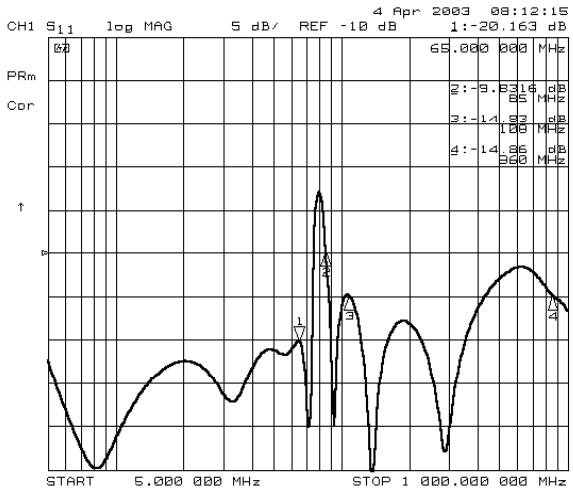
Attenuation and Insertion Loss (TX to Cable, 75Ω)



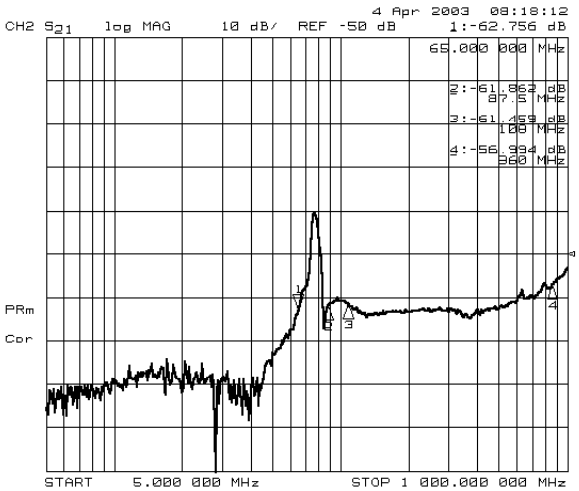
Attenuation and Insertion Loss (Cable to RX, 75Ω)



Coaxial Port Return Loss



RX-TX Isolation

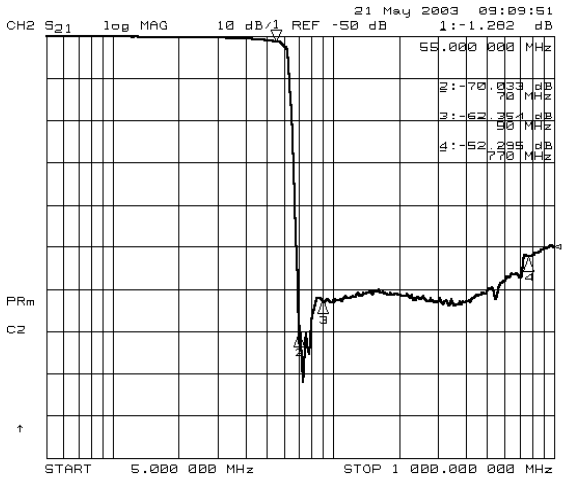


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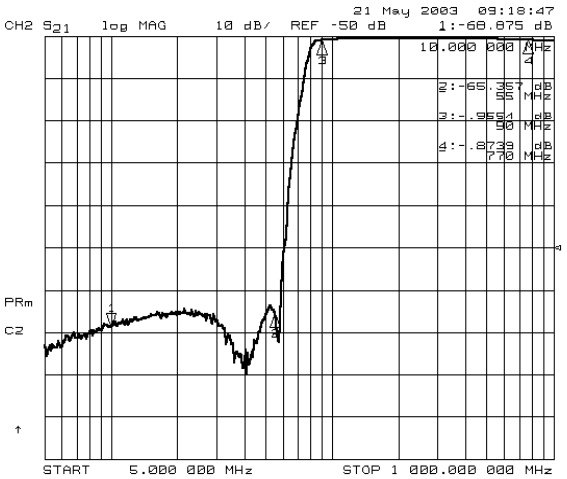
TYPICAL CHARACTERISTICS

R975ACITN-1036B (Japan)

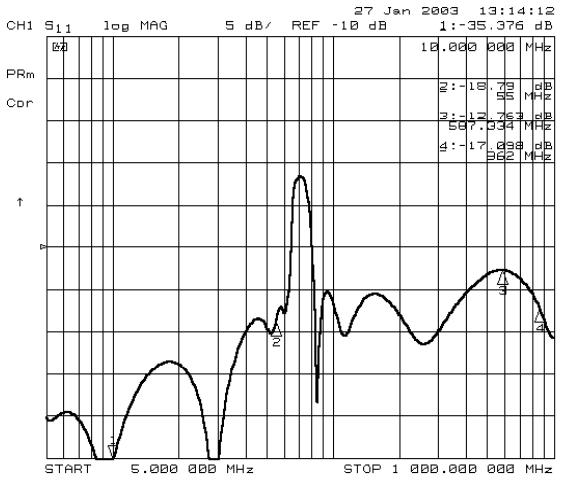
Attenuation and Insertion Loss (TX to Cable, 75Ω)



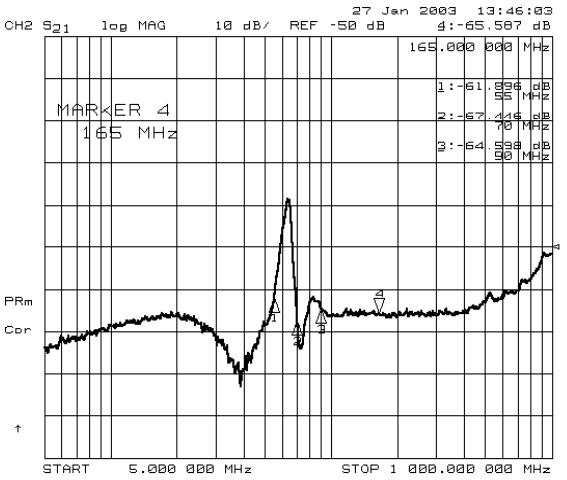
Attenuation and Insertion Loss (Cable to RX, 75Ω)



Coaxial Port Return Loss



RX-TX Isolation



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