
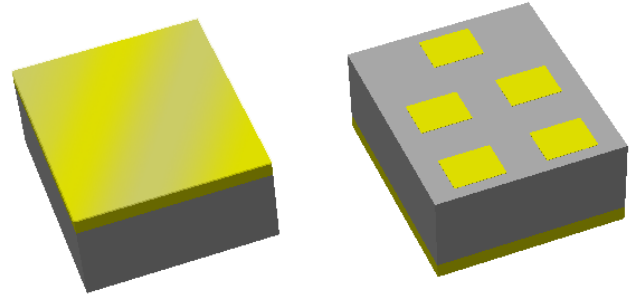


# Preliminary Datasheet

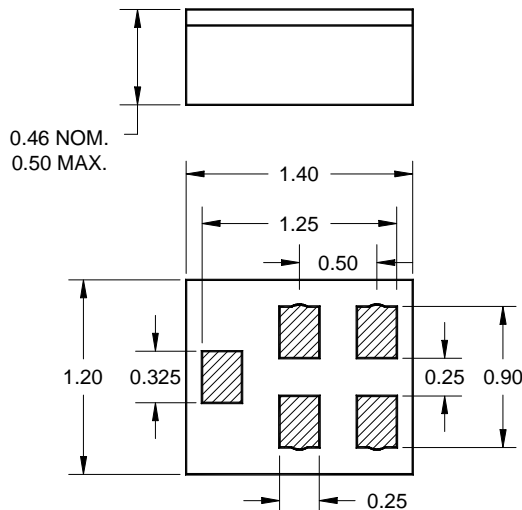
## Features

- For UMTS band applications
- Usable bandwidth 60 MHz
- Low loss
- High attenuation
- Single-ended operation at 50Ω
- Chip Scale Package (CSP)
- Hermetic
- RoHS compliant (2002/95/EC), Pb-free 



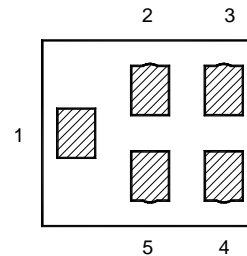
## Package

Surface Mount 1.40 x 1.20 x 0.46 mm



## Pin Configuration

Bottom View



Pin No.	Description
1	Input
4	Output
2,3,5	Ground

# Preliminary Datasheet

## Target Electrical Specifications <sup>(1,2)</sup>

Operating Temperature Range: -20 to +85°C

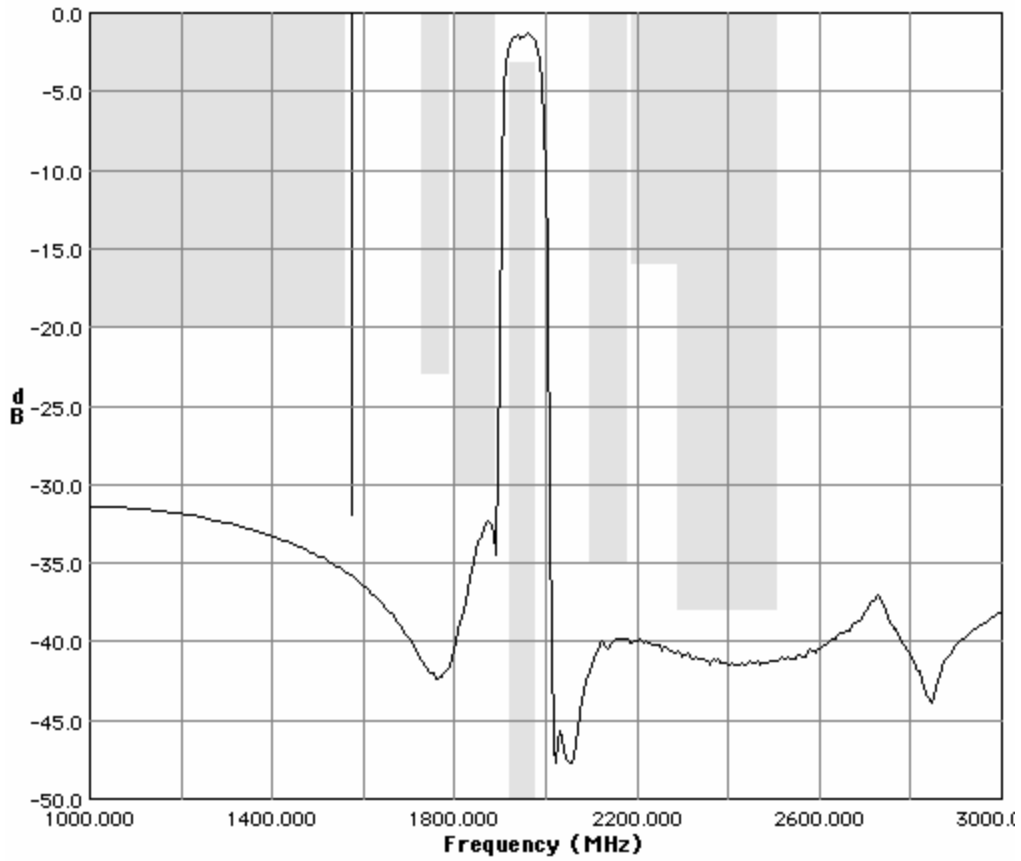
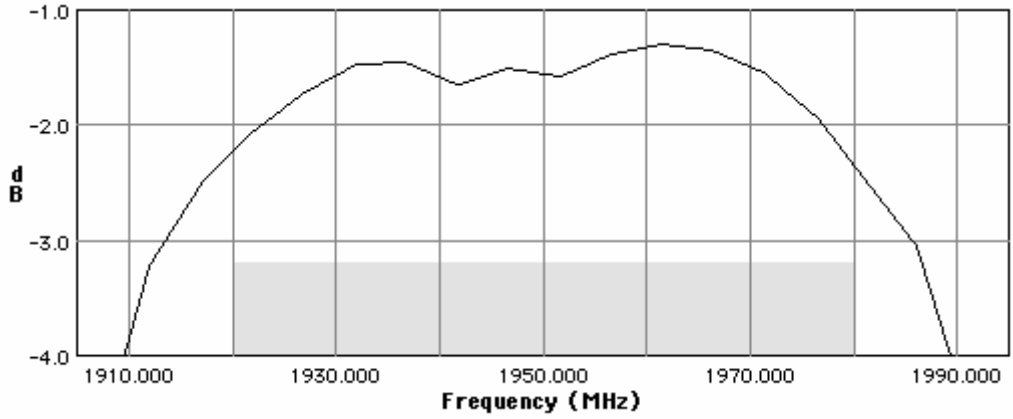
Parameter	Minimum	Typical	Maximum	Unit
<b>Center Frequency</b>	-	1950	-	MHz
<b>Maximum Insertion Loss</b> 1920 - 1980 MHz	-		3.2	dB
<b>Absolute Attenuation</b>				
1 - 925 MHz	20		-	dB
925 - 960 MHz	25		-	dB
960 - 1560 MHz	20		-	dB
1575 - 1576 MHz	32		-	dB
1730 - 1790 MHz	23		-	dB
1805 - 1880 MHz	28		-	dB
2110 - 2170 MHz	35		-	dB
2200 - 2300 MHz	16		-	dB
2300 - 2400 MHz	38		-	dB
2400 - 2500 MHz	38		-	dB
2500 - 3100 MHz	23		-	dB
3840 - 3960 MHz	23		-	dB
5760 - 5940 MHz	18		-	dB
<b>Input/Output Return Loss</b> 1920 - 1980 MHz	10		-	dB
<b>Source Impedance</b>	-	50	-	Ω
<b>Load Impedance</b>	-	50+j20	-	Ω

### Notes:

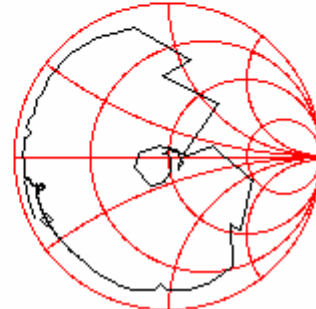
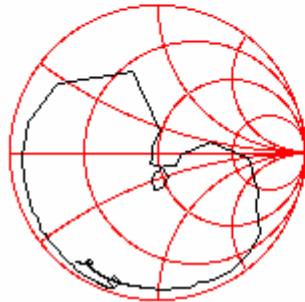
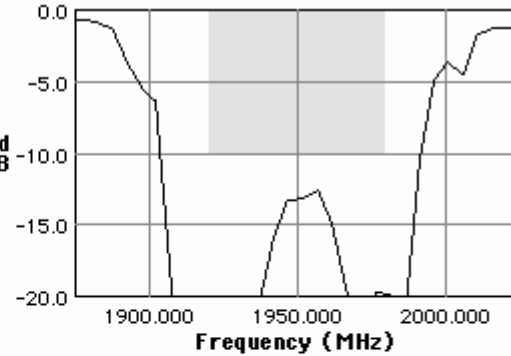
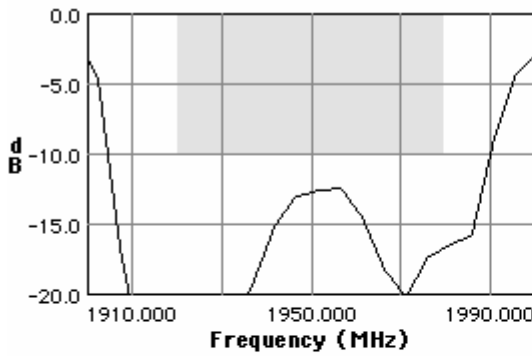
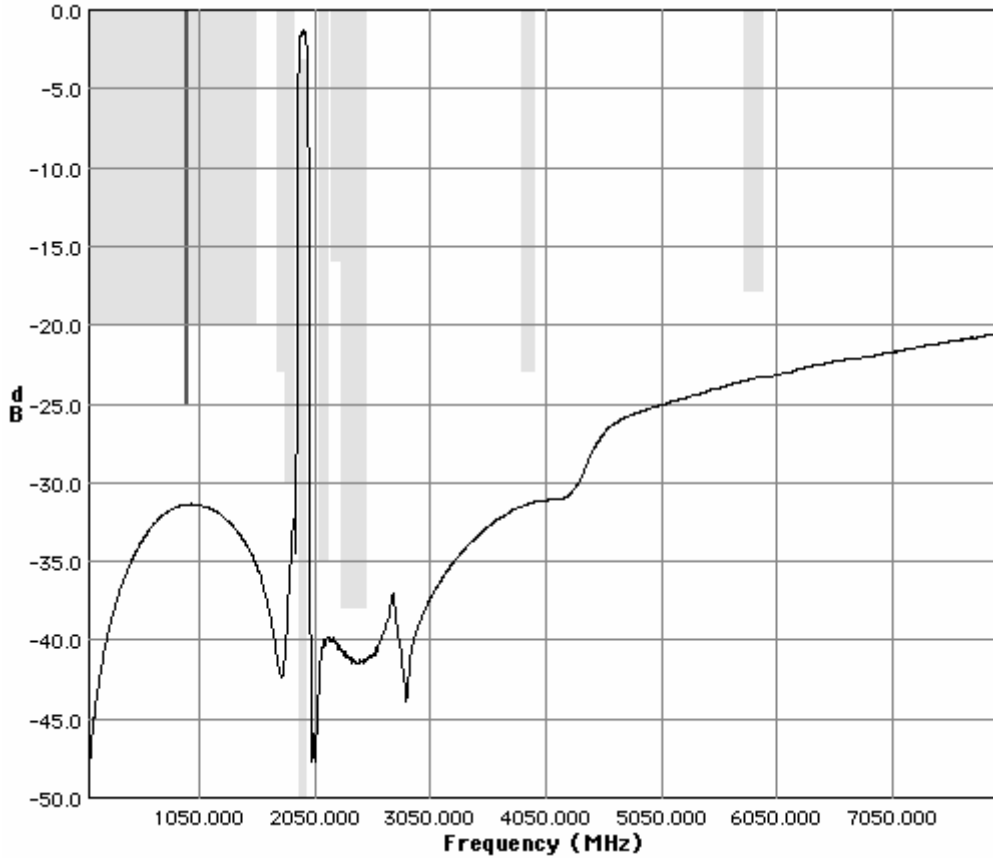
1. All target specifications are based on the test circuit shown below
2. All target specifications represent a design goal and not a guarantee until the design is finalized and a data sheet is issued

# Preliminary Datasheet

## Typical Electrical Performance



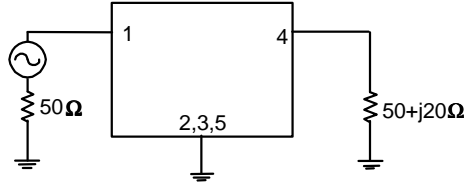
**Preliminary Datasheet**



**Preliminary Datasheet**

**Matching Schematics**

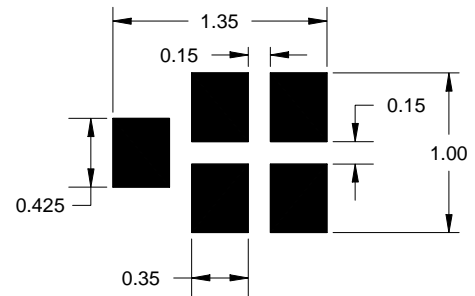
50 Ω  
Single-ended  
Input



50+j20 Ω  
Single-ended  
Output

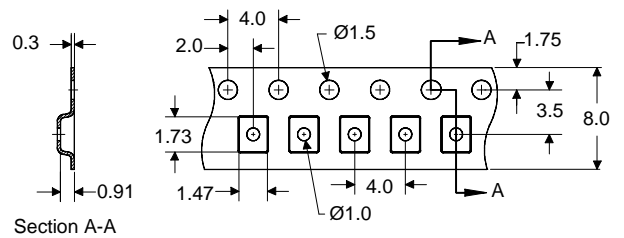
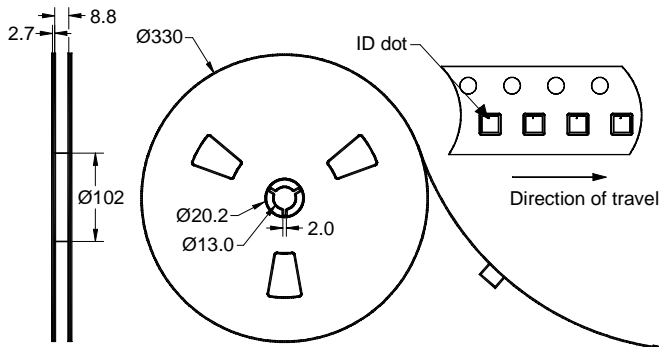
**Marking** **PCB Footprint**

TBD



This footprint represents a recommendation only  
Dimensions shown are nominal in millimeters

**Tape and Reel**



Dimensions shown are nominal in millimeters  
Packaging quantity: 10,000 units/reel