

Triple Band 2-Way SMT Power Divider

1900~2500MHz PCS, WCDMA & TD-SCDMA, WiBro

#### **Device Features**

- Typical Isolation = 20.0 dB
- Typical Insertion Loss = 0.6 dB
- MSL 3 moisture rating
- Small Size and Low Profile
- RoHS2-compliant SOT-26 Plastic Package



BD23XX(XX=Wafer number)

#### Product Description

BeRex's Divider BD2326 is designed for PCS, WCDMA & TD-SCDMA and WiBro band with low Insertion Loss and Isolation. This chip is fully passivated for enhanced performance and reliability and packaged in RoHS2compliant with SOT-26 surface mount package.

### **Typical Performance**<sup>1</sup>

Parameter	Min	Typical	Max	Unit	
Frequency Range	1900		2500	MHz	
Insertion Loss		0.65	0.9	dB	
Isolation	15	20		dB	
IRL(S11)		-15	-10	dB	
ORL(S22/S33)		-22	-18	dB	
Amplitude Balance		0.06	0.2	dB	
Phase Balance		0.8	1.0	deg	

\*All specifications apply to the following test conditions,

1. Device performance \_ measured on BeRex E/B at 25°C, 50ohm system.

2. Insertion Loss: Above 3.0dB.

#### Absolute Maximum Ratings

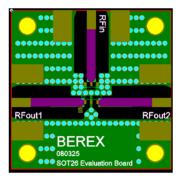
Parameter	Rating
Input Power	1W CW dBm
Storage Temperature	-55 to +155°C
Operating Temperature	-40 to +85°C

Operation of this device above any of these parameters may result in permanent damage.

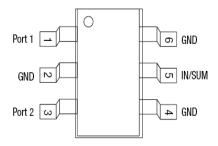
### Applications

- Base station Infrastructure
- Commercial/Industrial/Military wireless system

## **Evaluation Board Drawing**



#### **Function Block Diagram**



Pins 2,4 and 6 must be DC and RF grounded.

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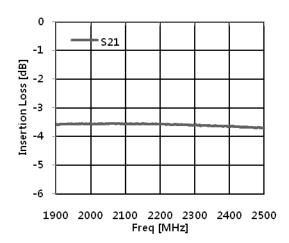
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Parameters	Unit	WCDMA & TD-SCDMA			WiBro							
Frequency Range	MHz	1900	2075	2250	2200	2350	2500					
Insertion Loss	dB	0.58	0.59	0.64	0.62	0.69	0.77					
Isolation	dB	23.33	27.55	23.28	24.47	19.58	15.03					
IRL(S11)	dB	17.93	17.05	14.94	15.89	13.83	12.10					
ORL(S22,S33)	dB	21.92	23.04	22.90	22.81	22.00	20.09					
Phase Diff.	deg	0.69	0.76	0.60	0.84	0.56	0.62					
Amplitude Balance	dB	0.03	0.04	0.06	0.05	0.06	0.09					

## **Typical Test Data**

#### **Insertion Loss vs. Frequency**





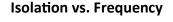
S11

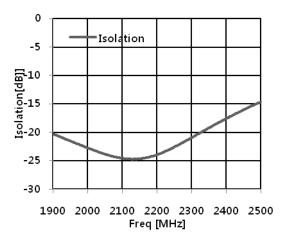
0

-5

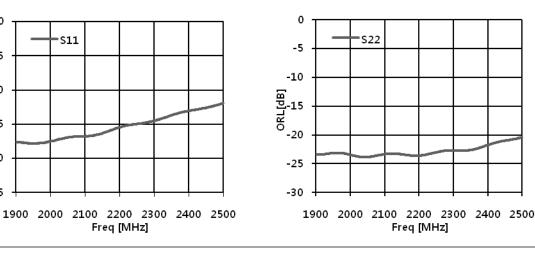
-20

-25









•website: www.berex.com

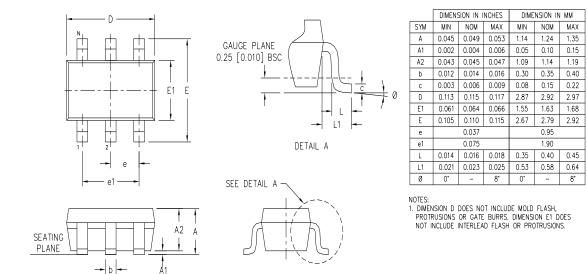
•email: sales@berex.com

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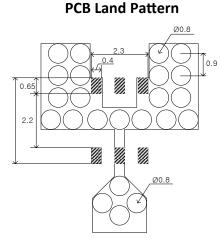
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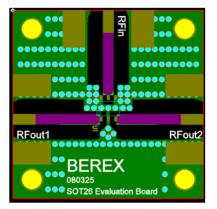


# Package Outline Drawing

## Suggested PCB Land Pattern and PAD Layout



PCB Mounting



Note : All dimension \_ millimeters

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PCB lay out \_ on BeRex website

•website: www.berex.com

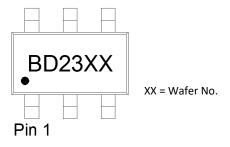
•email: <u>sales@berex.com</u>



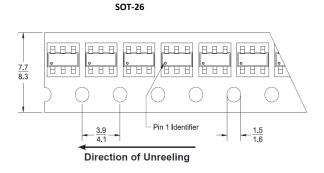
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# **Package Marking**



## Tape & Reel



Packaging information:

Tape Width (mm): 8 Reel Size (inches): 7 Device Cavity Pitch (mm): 4 Devices Per Reel: 2000

# Lead plating finish

## 100% Tin Matte finish

(All BeRex products undergoes a 1 hour, 150 degree C, Anneal bake to eliminate thin whisker growth concerns.)



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# MSL / ESD Rating

MSL Rating: Level 3 at +260°C convection reflow

Standard:

JEDEC Standard J-STD-020



Proper ESD procedures should be followed when handling this device.

### **RoHS Compliance**

This part is compliant with Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive 2011/65/EU as amended by Directive 2015/863/EU. This product also is compliant with a concentration of the Substances of Very High Concern (SVHC) candidate list which are contained in a quantity of less than 0.1%(w/w) in each components of a product and/or its packaging placed on the European Community market by the BeRex and Suppliers.

## NATO CAGE code:

