imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Impedance Matched Ultra Low profile 0404 Balun for TI CC2530 chipset (Anaren Application Note Ann-2004)

Description

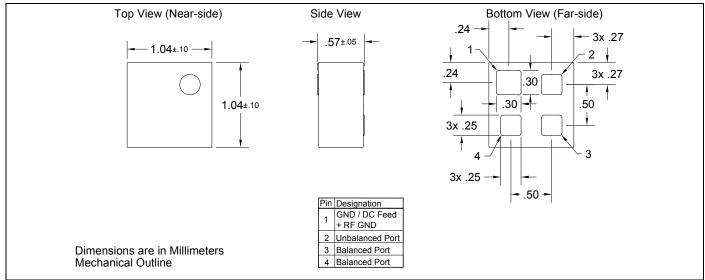
The BD2425N100ATI is a low cost, low profile sub-miniature unbalanced to balanced transformer specifically designed for differential inputs and output locations Texas Instruments CC2530 SoC Solution in an easy to use surface mount package. The BD2425N100ATI is ideal for high volume manufacturing and delivers higher performance than traditional ceramic baluns. This transformation enables single ended signals to be applied to differential ports on the CC2530. The output ports have equal amplitude (-3dB) with 180 degree phase differential. The BD2425N100ATI is available on tape and reel for pick and place high volume manufacturing.

Detailed Electrical Specifications: Specifications subject to change without notice.

Features:		F	ROOM (25°C)		
• 2400 – 2500 MHz	Parameter	Min.	Тур.	Max	Unit
 Matched to TI CC2530 SoC 0.57mm Height Profile 	Frequency	2300		2600	MHz
Low Insertion Loss	Unbalanced Port Impedance*		50		Ω
 Surface Mountable 	Balanced Port Impedance*		Matched		Ω
Tape & Reel	Return Loss*	17.3	23.6		dB
Non-conductive Top Surface DellS Compliant	Insertion Loss**		0.68	0.84	dB
 RoHS Compliant Zigbee, RF4CE 	Power Handling			1.0	Watts
Halogen Free					
	Operating Temperature	-55		+85	°C

*Specification based on performance of unit properly installed on microstrip printed circuit boards with 50 Ω nominal impedance. ** Insertion Loss stated at room temperature (Insertion Loss is approximately 0.1dB higher at +85°C

Outline Drawing





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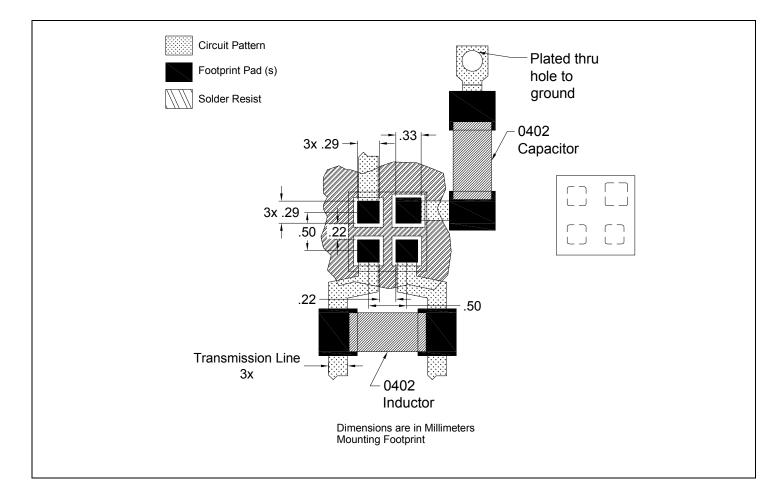


Mounting Configuration:

In order for Xinger surface mount components to work optimally, the proper impedance transmission lines must be used to connect to the RF ports. If this condition is not satisfied, insertion loss, Isolation and VSWR may not meet published specifications.

All of the Xinger components are constructed from organic PTFE based composites which possess excellent electrical and mechanical stability. Xinger components are compliant to a variety of ROHS and Green standards and ready for Pb-free soldering processes. Pads are Gold plated with a Nickel barrier.

An example of the PCB footprint used in the testing of these parts is shown below. In specific designs, the transmission line widths need to be adjusted to the unique dielectric coefficients and thicknesses as well as varying pick and place equipment tolerances.



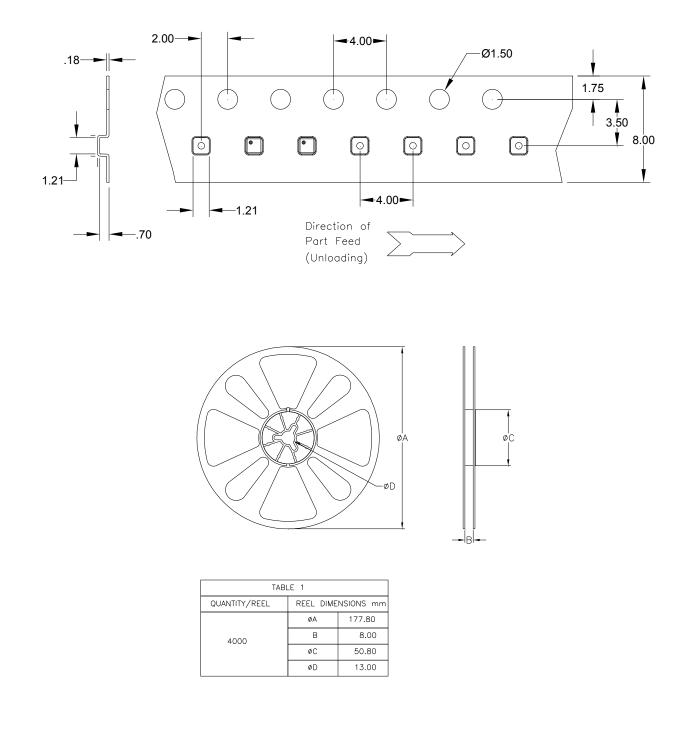


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Packaging and Ordering Information

Parts are available in reel and are packaged per EIA 481-2. Parts are oriented in tape and reel as shown below. Minimum order quantities are 4000 per reel. See Model Numbers below for further ordering information.





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