## MICROTECHNOLOGY

## DLL-113R-0.88G DELAY LINE PRELIMINARY REV: 006.12/02/04

TECHNICAL DESCRIPTION					
	MULTI-MIX <sup>®</sup> DELAY LINES				
FEATURES	APPLICATIONS				
• 869 - 894 MHz	• AMPS				
LOW LOSS	BASE STATION POWER AM	PLIFIER			
LOW VSWR	LINEARIZATION NETWORKS	S S			
SURFACE MOUNT	FEED FORWARD				
LOW COST	PRE-DISTORTION				
	ADAPTIVE INTERFERENCE	CANCELLATION			

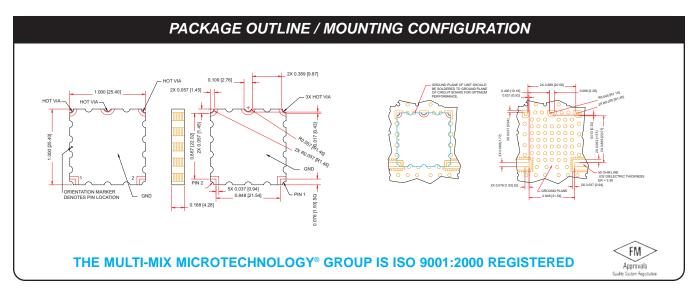
The DLL-113R-0.88G, a member of the Multi-Mix<sup>®</sup> DLL family of delay lines, provides a mean delay of 11.25 nS in the AMPS band and features low insertion loss and low VSWR. The DLL-113R-0.88G exhibits excellent phase linearity and amplitude flatness over the 869 - 894 MHz frequency range. The Multi-Mix<sup>®</sup> DLL-113R-0.88G is intended for use in power amplifier linearization networks such as feedforward and predistortion.

DLL delay lines are fusion bonded multilayer stripline structures. The DLL series offers an excellent alternative to expensive coaxial and delay filter structures. The fusion bonding process yields a homgeneous monolithic dielectric structure with reliability, ruggedness and electrical and thermal performance that is superior to conventional adhesive bonding techniques.

GENERAL SPECIFICATIONS
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FREQUENCY RANGE	MEAN DELAY*	PHASE DEVIATION	AMPLITUDE FLATNESS	
MHz	(nS)	(DEGREES MAX)	(dB p-p)	
869 - 894	11.25 ± 0.2	± 0.5	0.15	
RETURN LOSS	INSERTION LOSS	POWER HANDLING	RF INTERFACE	SIZE/OUTLINE
(dB MIN)	(dB MIN)	(WATTS)		(Inches - I,w,h)
20	4.6	15	Surface Mount	1.0 x 1.0 x 0.18

Specifications are based upon unit mounted on printed circuit board with 50 Ohm nominal impedance. \*Mean delay refers to the group delay of the applied input signal through the network. The specified tolerance relates to unit-unit group delay variation.



U.S. Patent 6,099,677 and other Patents Pending.

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