MICROTECHNOLOGY

DLL-057R-0.94G DELAY LINE PRELIMINARY REV: 008, 06/07/05

	MULTI-MIX [®] DELAY LINES		
<u>FEATURES</u>	<u>APPLICATIONS</u>		
• 925 - 960 MHz	• GSM		
LOW LOSS	BASE STATION POWER AMPLIFIER		
LOW VSWR	LINEARIZATION NETWOR	KS	
SURFACE MOUNT	FEED FORWARD		
LOW COST	PRE-DISTORTION		
	ADAPTIVE INTERFERENCE	CE CANCELLATION	

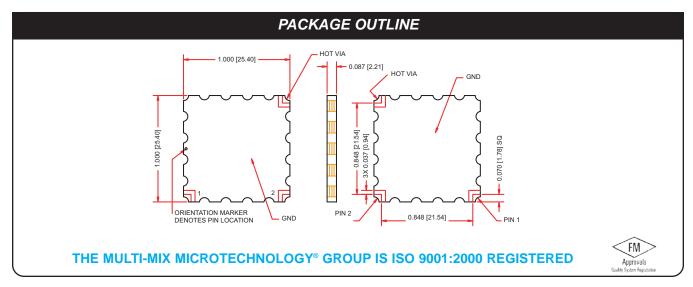
The DLL-057R-0.94G, a member of the Multi-Mix[®] DLL family of delay lines, provides a mean delay of 5.68 nS in the GSM band and features low insertion loss and low VSWR. The DLL-057R-0.94G exhibits excellent phase linearity and amplitude flatness over the 925 - 960 MHz frequency range. The Multi-Mix[®] DLL-057R-0.94G 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.

FREQUENCY RANGE	MEAN DELAY*	PHASE DEVIATION	AMPLITUDE FLATNESS	
MHz	(nS)	(DEGREES MAX)	(dB p-p)	
925 - 960	5.68 ± 0.11	± 1.0	0.1	
RETURN LOSS	INSERTION LOSS	POWER HANDLING	RF INTERFACE	SIZE/OUTLINE
(dB MIN)	(dB MAX)	(WATTS)		(Inches - I,w,h)
20	2.6	15	Surface Mount	1.0 x 1.0 x 0.09

Specifications are based upon unit mounted on printed circuit board with 50 Ohm nominal impedance.

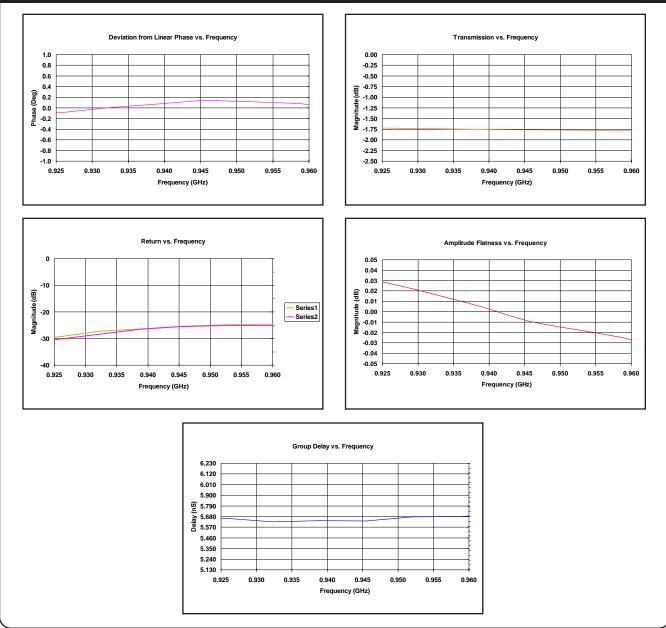
*Mean delay refers to the group delay of the applied input signal through the network. The specified tolerance relates to unit-unit group delay variation.

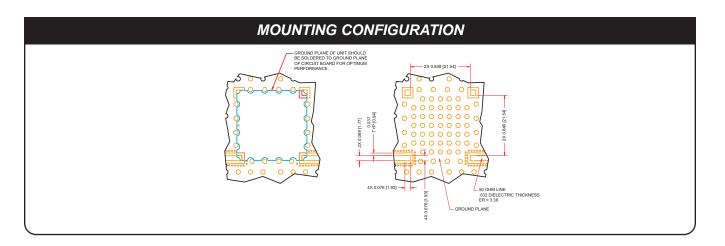


U.S. Patent 6,099,677 and other Patents Pending.

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TYPICAL PERFORMANCE





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