

FEATURES

LOW LOSS

• LOW VSWR

LOW COST

• 2110 - 2170 MHz

SURFACE MOUNT



TECHNICAL DESCRIPTION

MULTI-MIX DELAY LINES

- **APPLICATIONS**
- WCDMA
- UMTS
- BASESTATION POWER AMPLIFIER LINEARIZATION NETWORKS
 - FEED FORWARD
 - PRE-DISTORTION
- ADAPTIVE INTERFERENCE CANCELLATION



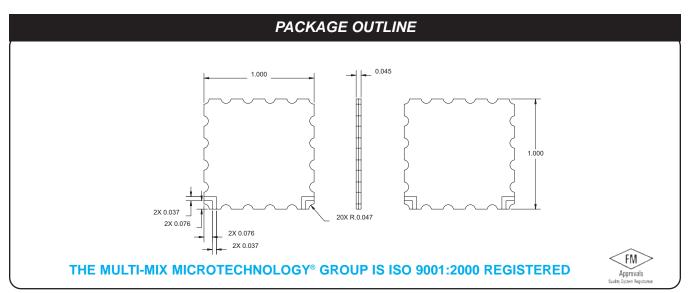
The DLL-048R-2.14G, a member of the Multi-Mix® DLL family of delay lines, provides a mean delay of 4.85 nS in the UMTS band and features low insertion loss and low VSWR. The DLL-048R-2.14G exhibits excellent phase linearity and amplitude flatness over the 2110 - 2170 MHz frequency range. The Multi-Mix DLL-048R-2.14G 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				
FREQUENCY RANGE MHz	MEAN DELAY* (nS)	PHASE DEVIATION (DEGREES MAX)	AMPLITUDE FLATNESS (dB p-p)	
2110 - 2170	4.85 ± 0.1	± 1.0	0.1	
RETURN LOSS (dB MIN)	INSERTION LOSS (dB MAX)	POWER HANDLING (WATTS)	RF INTERFACE	SIZE/OUTLINE (Inches - I,w,h)
20	3.0	45	Surface Mount	1.0 x 1.0 x 0.045

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.

TYPICAL PERFORMANCE

