

Model No. X214-13

3dB, 90° Hybrid Coupler, Commercial Application

DESCRIPTION

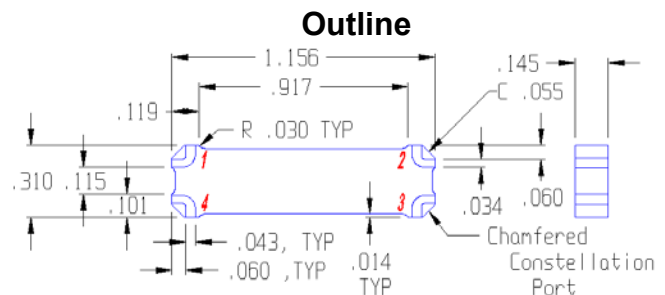
The **X214-13** and the **X214-13HR** (High Reliability) are 3dB, 90° microwave quadrature hybrid couplers in stripline form optimized for the operating frequency range between 2100MHz ~ 2200MHz. Ideal for higher-power amplifier designs for UMTS and other 3G applications.

Key features:

- **Improved Impedance Match**
Superior geometrical match of Chamfered Constellation Ports to 50 Ohm transmission lines.
- **Extra Low Insertion Loss**
- **Excellent Solution For UMTS Power Amplifiers**
- **Space Saving Layout Advantage**
Unique Elongated design compliments power transistor paring applications.
- **Cost Effective Solution**
Caseless construction costs are significantly less than other microwave quadrature techniques, i.e. wireline.



Made in the USA



PRODUCT SPECIFICATION MATRIX

NO.	DESCRIPTION	SPECIFICATION
ELECTRICAL		
1	Frequency Range	2100 to 2200MHz
2	Isolation	20 dB min
3	Insertion Loss	≤ 0.10
4	VSWR	1.2:1 max
5	Amplitude Balance	± 0.10 dB max
6	Phase Balance	2° max
7	Average Power	300 Watts CW
8	Dynamic Range	95 dB min
9	Output open/shorted	No damage
10	In/Out Impedance	50 Ω

PORT CONFIGURATION

