AEROFLEX
KDI-INTEGRATED PRODUCTS

MODEL CL-K59S
Dual Directional Coupler

TECHNICAL BULLETIN

Description

The specifications that are listed should be considered as "representative" of a family of directional couplers intended for high power, low intermod performance, for cellular and PCS use. The Model CL-K59S was designed for a custom application in the transmitter path for base station applications. The frequency range was limited only by the particular system it was made for; wider frequency bandwidth's and ranges are available as may be needed for other applications.

SPECIFICATIONS	
Frequency:	860-870 MHz
Connectors:	7/16 male-fem
Coupling, forward and reverse: Tolerance:	30 dB +/ - 0.25 dB
Insertion Loss:	0.25 dB Max.
Directivity:	20 dB Min.
VSWR: Main line: Coupled ports	 1.06 Max. 1.20 Max.
Maximum average input power:	400 Watts
IM performance:	-125 dBm in the band 898-925 MHz
Temperature Range:	-25 to 70 Degrees C
Environment:	Suitable for use in BTS applications.

The power input of each of two transmit signals applied to the input main line port to be 80 Watts (average) in the frequency range 860-870 MHz.. The spectrum analyzer should be set to Zero frequency span, 1 kHz resolution bandwidth, 1 kHz video bandwidth, and video averaging of 100.

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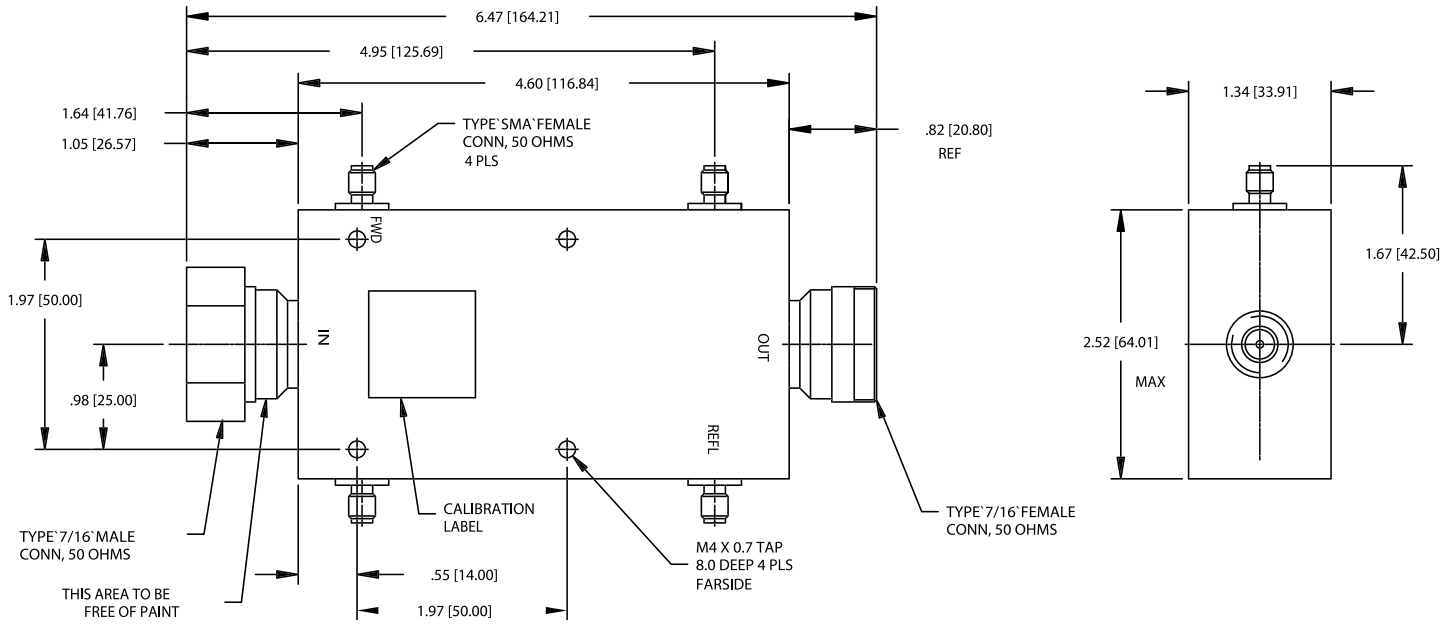

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