

CERAMIC DIPLEXERS SPECIAL APPLICATIONS

MXD SERIES

Part Number Application	Channel	Center Frequency	BW (MHz)	BW I.L (dBa max.)	VSWR in BW	DELAY MIN/ MAX(ns)	Channel Isolation Min.
8MXD851/906-X38-54CC 700-22	Low High	851 906	38 38	4.0 4.0	1.9 1.9	15/54 15/48	40dBc 40dBc
6MXD1880/1960-X20-33CC PCS 600-280	Low High	1880 1960	20 20	3.5 2.5	2.0 2.0	15/32 15/30	35dBc 47dBc
8MXD836.5/881.5-X25-66AA/L* Cellular Amps 600-508	Low High	836.5 881.5	25 25	3.0 3.0	1.5 1.5	38/65 35/60	60dBc 60dBc
6MXD1880/1960-X60-55CC PCS 600-680	Low High	1880 1960	60 60	5.0 4.0	2.0 2.0	14/45 14/38	40dBc 40dBc

* This model contains an additional Lowpass to help suppress spurious responses. This option can be added to many of our products.

Lark Engineering's family of high performance ceramic diplexers is similar to the standard diplexers. The larger individual resonators (5 mm) and increased number of section, five, allow for greater channel isolation with a minimum of degradation of the passband insertion loss.

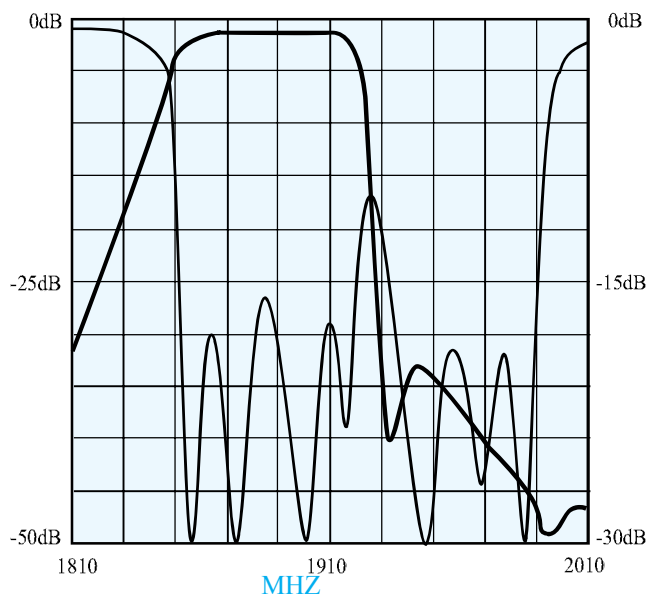
As with the standards these diplexers have the common port along one side with the individual channel ports on the end corners.

TRANSMISSION

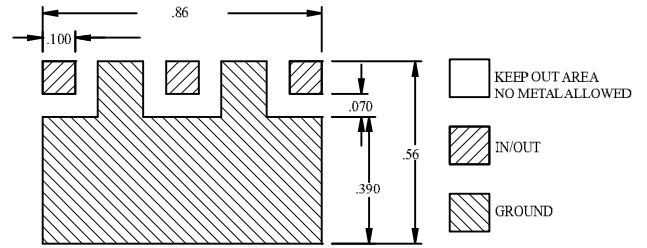
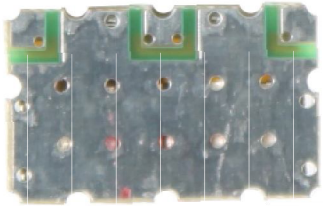
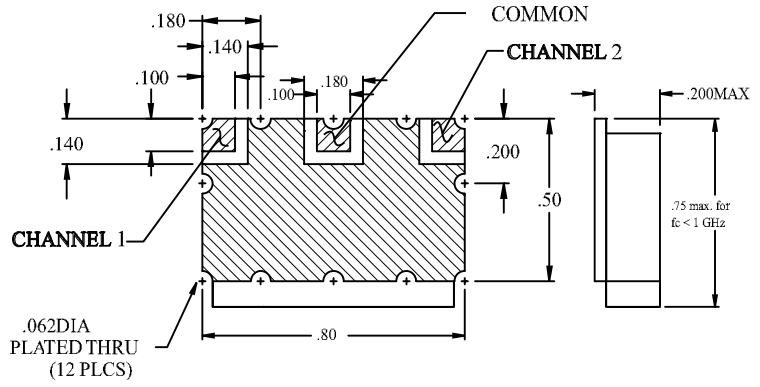
REFLECTION

TRANSMISSION

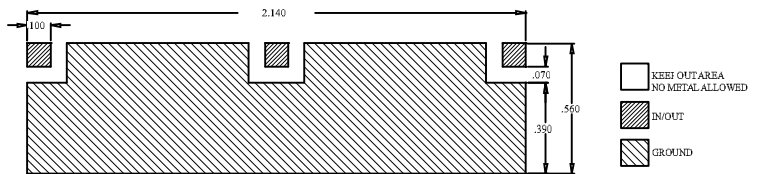
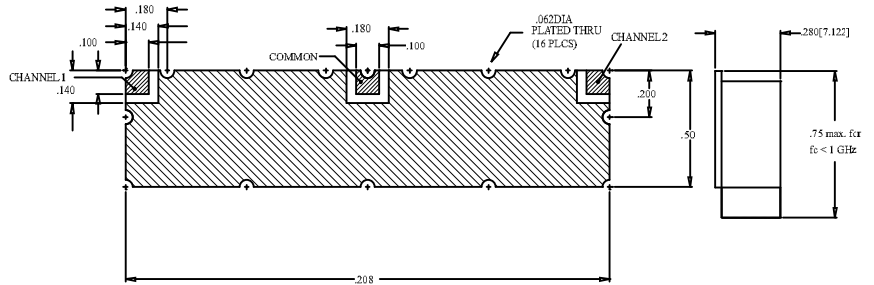
REFLECTION



TYPICAL PERFORMANCE
5MXD1880/1960-X60-55CC



PCB SOLDERING PATTERN LAYOUT



PCB SOLDERING PATTERN LAYOUT

The size shown is a standard used by Lark to facilitate low cost, easily reproduced units. Should you require another size, please submit all of your requirements, both electrical and mechanical, to Lark Engineering. This will enable Lark to quote the optimum design for your application.