

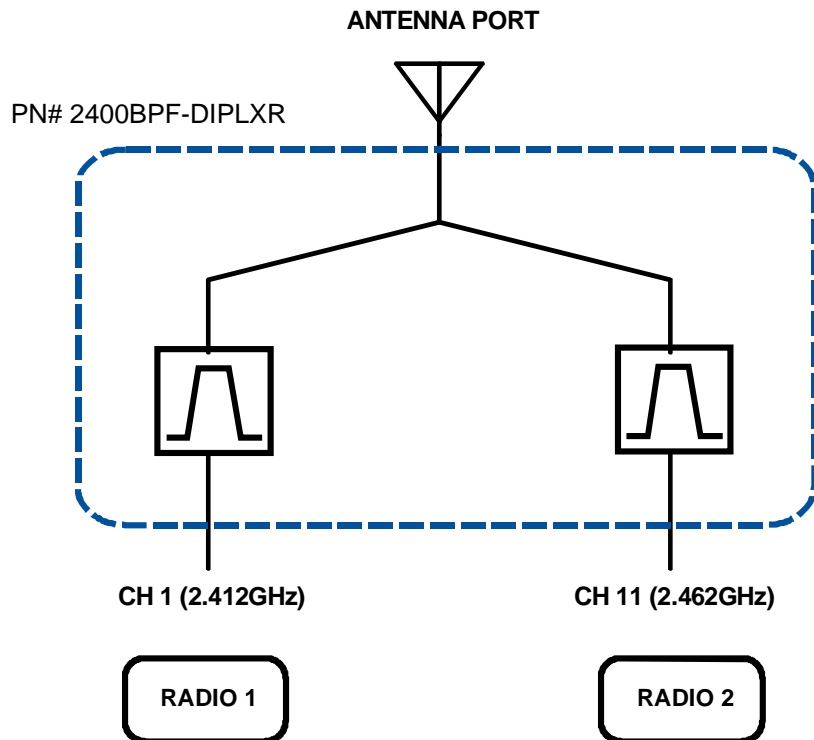
DIPLEXER CH1, CH11



A Diplexer provides a low loss means to frequency multiplex and combine two radios onto one antenna. Two radios operating on CH 1 and CH 11 can operate simultaneously on the same antenna without RF interference from each radio. Sixteen poles (8 poles per band) of selectivity for each channel provide exceptional cosite performance to unwanted RF carriers or interference.

Featured Highlights:

- Combine two radios onto one antenna port
- Lower insertion loss than traditional combination methods (i.e. resistive/inductive splitters)
- 16 Poles (8 per band) of High Q filtering for exceptional cosite performance
- Passive (no active components)



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West Chester, Ohio 45069
PH: 513-777-2774

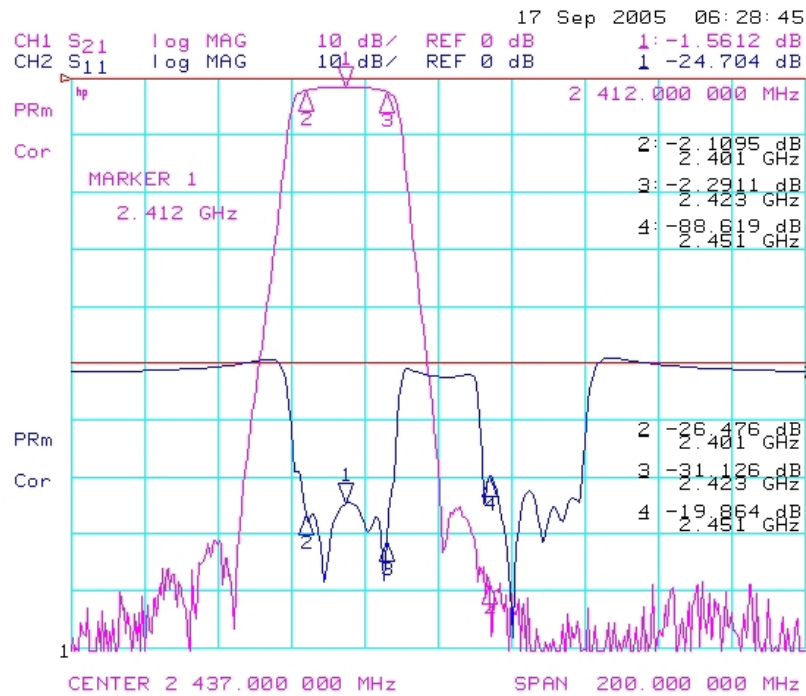
Typical Performance Parameters

Frequency Bands:	Channel 1: $f_o = 2412$ MHz ; Passband +/- 11MHz ; 2401 to 2423 MHz Channel 11: $f_o = 2462$ MHz ; Passband +/- 11MHz ; 2451 to 2473 MHz
Isolation:	Channel 1 to Channel 11 > 85 dBc rejection Channel 11 to Channel 1 > 85 dBc rejection
Passband Insertion Loss:	Channel 1: < 1.7 dB @ f_o (Typically 1.5dB) < 3.0 dB @ $f_o \pm 11$ MHz or 2401 to 2423 MHz Channel 11: < 1.7 dB @ f_o (Typically 1.5dB) < 3.0 dB @ $f_o \pm 11$ MHz or 2451 to 2473 MHz
Passband Return Loss:	> 15 dB (18dB Typical)
Maximum RF Input Power:	Pin (Radio Ports): 25 Watts CW Pin (Antenna Port): 25 Watts CW
Selectivity:	16 Poles (8 Poles per channel) of High Q, coaxial resonant cavity filtering for on each channel. Providing superior cosite performance achieving maximum cosite performance for collocated radios.
Impedance:	50 Ohms input/output
Operational Temperature:	-40 to +85 Deg C
Size / RF Connectors:	6.75" x 4.0"x 1.75" ("N" type Female Connectors)
Weight:	2.4 lbs
Chassis:	Machined Aluminum Housing, Painted Black
Lightning Suppression:	Shunt inductive (DC Short)

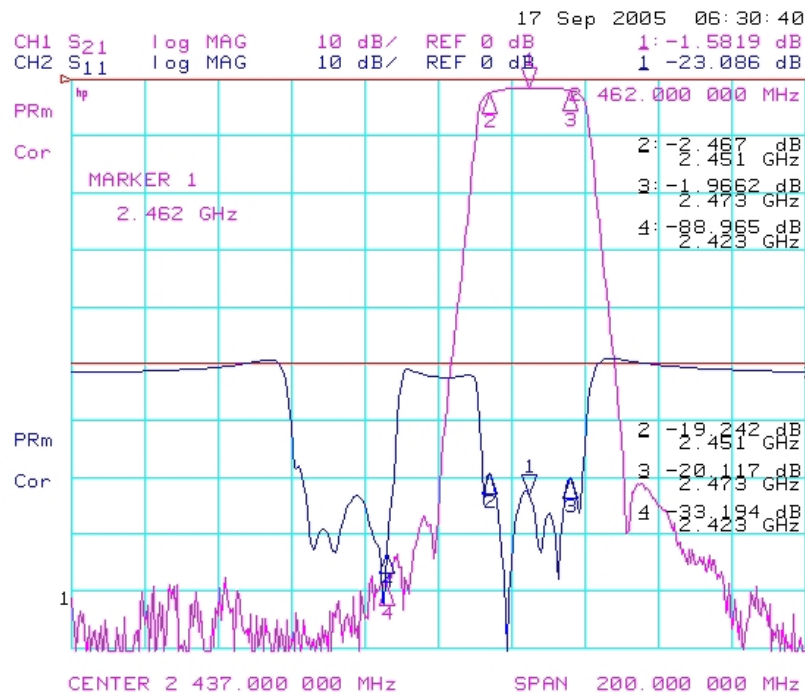
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Typical Selectivity Plots:

CH 1



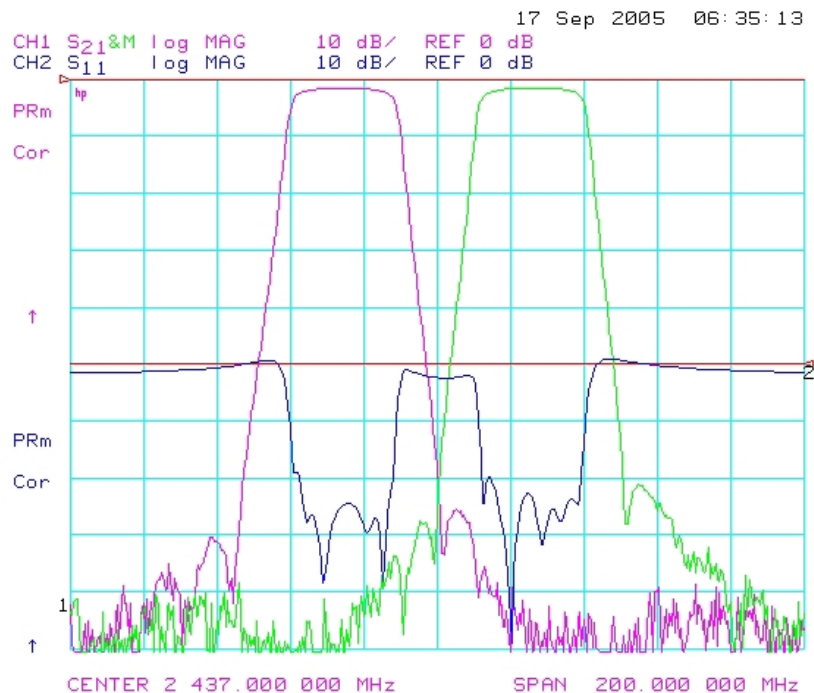
CH 11



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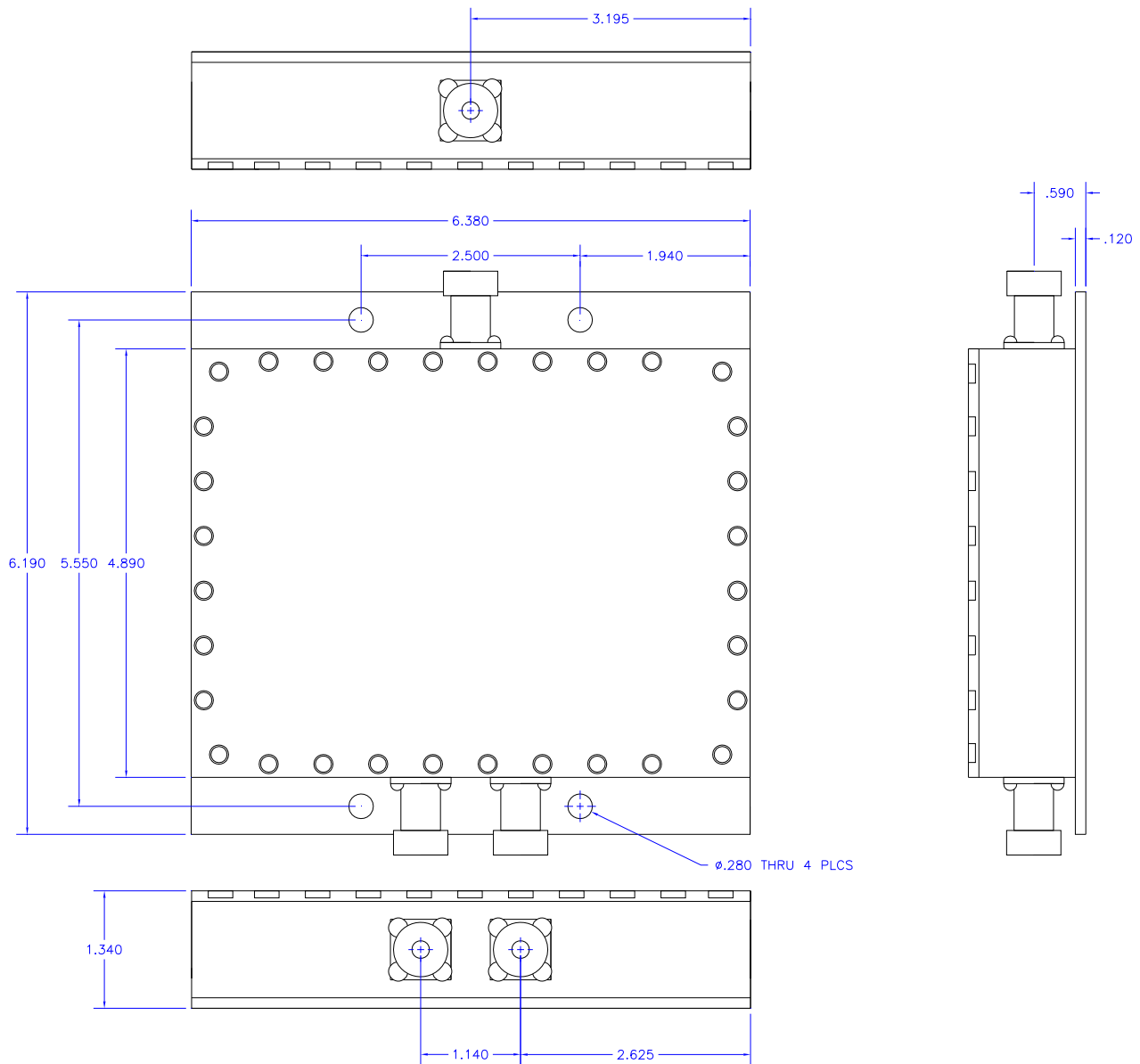
Typical Selectivity Plots:

CH 1 & 11



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Mechanical Outline:



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