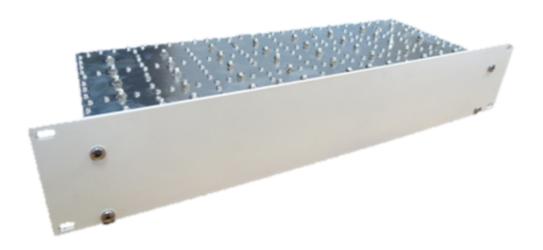
## mimomax

## DUAL BAND PASS EXTERNAL DUPLEXER

Spec Sheet



The Mimomax Dual Bandpass Duplexer is a high performance, tuneable cavity RF Filter. With low insertion loss and a very compact footprint, the Dual channel format provides an economical site filter solution for congested sites where space is at a premium.

Using only 2U of rack height the Mimomax Dual Duplexer provides a high quality stable filtering solution for two radio channels (MiMO) in one standalone compact mechanical packaging solution. Mimomax supplies the Dual Bandpass Filter pre-tuned and complete with a 19in 2U Front Panel ready for installation.

Note: The Mimomax Dual Bandpass Filter is also suitable for other radio equipment and can be used as an economical solution for multi-channel conventional trunked analogue or digital radio systems.

## DUAL BAND PASS EXTERNAL DUPLEXER SPECIFICATIONS

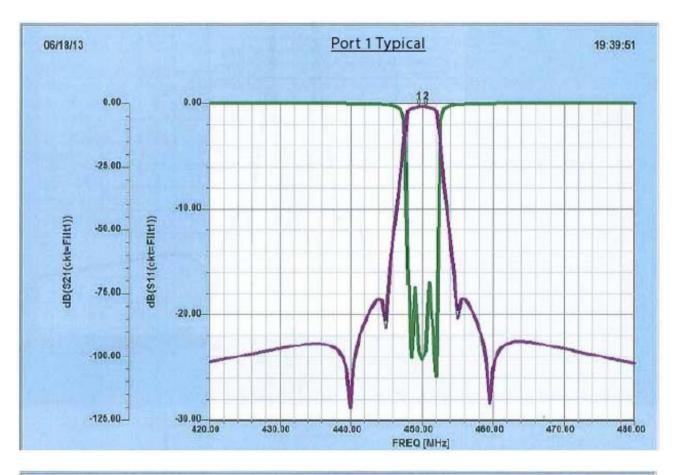
			Specification	s (ACC-BPD-41	5-DB-XX0T)				
Frequency Band	400-430MHz product variant								
	Example 1		Example 2		Example 3		Example 4		
	Low 1	HIgh 1	Low 2	High 2	Low 1	High 1	Low 2	High 2	
Frequency Range	399.5-400.5MHZ	409.5-410.5MHz	399.5-400.5MHz	404.5-405.5MHz	419.5-420.5MHz	429.5-430.5MHz	424.5-425.5MHz	429.5-430.5MHz	
Bandwidth	1 MHz (Typically)								
Insertion Loss	Typically < 1dB, worst case over temperature < 1.75dB								
Return Loss	≥20dB (typically); ≥15dB (-30°~70°)								
Rejection	≥85dB @ 410MHz	≥85dB @ 400MHz	≥70dB @ 405MHz	≥70dB @ 400MHz	≥85dB @ 430MHz	≥85dB @ 420MHz	≥70dB @ 430MHz	≥70dB @ 425MHz	
Power	100W (Continuous)								
Impedance	50Ω								
Surface Finish	Silver Plated								
Operating Temperature	-30° to 70°								
Port Connectors				N-Fe	male				
Weight				Abou	t 5.8kg				
Configuration				As Below	(±0.2mm)				
			Specification	s (ACC-BPD-45	0-DB-XX0T)				
Frequency Band			Specification		<b>0-DB-XX0T)</b> product variant				
Frequency Band	Exam	ple 1			product variant	nple 3	Exam	ple 4	
Frequency Band	Exam Low 1	iple 1 High 1		440-470MHz	product variant	nple 3 High 1	Exam Low 2	ple 4 High 2	
Frequency Band			Exam	440-470MHz   nple 2	product variant Exam	·			
	Low 1	High 1	Exam Low 2 439.5-440.5MHZ	440-470MHz   nple 2 High 2	Low 1 459.5-460.5MHZ	High 1 469.5-470.5MHZ	Low 2	High 2	
Frequency Range	Low 1	High 1	Exam Low 2 439.5-440.5MHZ	440-470MHz   nple 2 High 2 444.5-445.5MHZ y < 1dB, worst case	Low 1 459.5-460.5MHZ	High 1 469.5-470.5MHZ	Low 2	High 2	
Frequency Range Insertion Loss	Low 1	High 1	Exam Low 2 439.5-440.5MHZ	440-470MHz   nple 2 High 2 444.5-445.5MHZ y < 1dB, worst case ≥20dB (typically) ≥85dB @ 435MHz	Low 1 459.5-460.5MHZ over temperature	High 1 469.5-470.5MHZ	Low 2	High 2	
Frequency Range Insertion Loss Return Loss	Low 1 439.5-440.5MHZ ≥85dB @ 450MHz	High 1 449.5-450.5MHZ ≥85dB @ 440MHz	Exam Low 2 439.5-440.5MHZ Typically ≥85dB @ 450MHz	440-470MHz pple 2 High 2 444.5-445.5MHZ y < 1dB, worst case ≥20dB (typically), ≥85dB @ 435MHz ≥70dB @ 440MHz	Low 1 459.5-460.5MHZ over temperature ≥15dB (-30°~70°) ≥85dB @ 470MHz	HIgh 1 469.5-470.5MHZ < 1.75dB ≥85dB @ 460MHz	Low 2 464.5-465.5MHZ ≥85dB @ 475MHz	High 2 469.5-470.5MHZ ≥85dB @ 460MHz	
Frequency Range Insertion Loss Return Loss Rejection	Low 1 439.5-440.5MHZ ≥85dB @ 450MHz	High 1 449.5-450.5MHZ ≥85dB @ 440MHz	Exam Low 2 439.5-440.5MHZ Typically ≥85dB @ 450MHz	440-470MHz p nple 2 444.5-445.5MHZ y < 1dB, worst case ≥20dB (typically) ≥85dB @ 435MHz ≥70dB @ 440MHz 100W (Co	Exan Exan Low 1 459.5-460.5MHZ over temperature ≥15dB (-30°~70°) ≥85dB @ 470MHz ≥70dB @ 465MHz	HIgh 1 469.5-470.5MHZ < 1.75dB ≥85dB @ 460MHz	Low 2 464.5-465.5MHZ ≥85dB @ 475MHz	High 2 469.5-470.5MHZ ≥85dB @ 460MHz	
Frequency Range Insertion Loss Return Loss Rejection Power	Low 1 439.5-440.5MHZ ≥85dB @ 450MHz	High 1 449.5-450.5MHZ ≥85dB @ 440MHz	Exam Low 2 439.5-440.5MHZ Typically ≥85dB @ 450MHz	440-470MHz   nple 2 High 2 444.5-445.5MHZ y < 1dB, worst case ≥20dB (typically), ≥85dB @ 435MHz ≥70dB @ 440MHz 100W (Co	Exan Exan Low 1 459.5-460.5MHZ over temperature ≥15dB (-30°~70°) ≥85dB @ 470MHz ≥70dB @ 465MHz ontinuous)	HIgh 1 469.5-470.5MHZ < 1.75dB ≥85dB @ 460MHz	Low 2 464.5-465.5MHZ ≥85dB @ 475MHz	High 2 469.5-470.5MHZ ≥85dB @ 460MHz	
Frequency Range Insertion Loss Return Loss Rejection Power Impedance	Low 1 439.5-440.5MHZ ≥85dB @ 450MHz	High 1 449.5-450.5MHZ ≥85dB @ 440MHz	Exam Low 2 439.5-440.5MHZ Typically ≥85dB @ 450MHz	440-470MHz p nple 2 High 2 444.5-445.5MHZ y < 1dB, worst case ≥20dB (typically) ≥85dB @ 435MHz ≥70dB @ 440MHz 100W (Co 50 Silver	Exam Exam Low 1 459.5-460.5MHZ over temperature ≥15dB (-30°~70°) ≥85dB @ 470MHz ≥70dB @ 465MHz ontinuous) DΩ	HIgh 1 469.5-470.5MHZ < 1.75dB ≥85dB @ 460MHz	Low 2 464.5-465.5MHZ ≥85dB @ 475MHz	High 2 469.5-470.5MHZ ≥85dB @ 460MHz	
Frequency Range Insertion Loss Return Loss Rejection Power Impedance Surface Finish Operating	Low 1 439.5-440.5MHZ ≥85dB @ 450MHz	High 1 449.5-450.5MHZ ≥85dB @ 440MHz	Exam Low 2 439.5-440.5MHZ Typically ≥85dB @ 450MHz	440-470MHz j nple 2 High 2 444.5-445.5MHZ y < 1dB, worst case ≥20dB (typically) ≥85dB @ 435MHz ≥70dB @ 440MHz 100W (Co 5i Silver -30°	broduct variant Exam Low 1 459.5-460.5MHZ over temperature ≥15dB (-30°~70°) ≥85dB @ 470MHz ≥70dB @ 465MHz bntinuous) DΩ Plated	HIgh 1 469.5-470.5MHZ < 1.75dB ≥85dB @ 460MHz	Low 2 464.5-465.5MHZ ≥85dB @ 475MHz	High 2 469.5-470.5MHZ ≥85dB @ 460MHz	
Frequency Range Insertion Loss Return Loss Rejection Power Impedance Surface Finish Operating Temperature	Low 1 439.5-440.5MHZ ≥85dB @ 450MHz	High 1 449.5-450.5MHZ ≥85dB @ 440MHz	Exam Low 2 439.5-440.5MHZ Typically ≥85dB @ 450MHz	440-470MHz   nple 2 High 2 444.5-445.5MHZ y < 1dB, worst case ≥20dB (typically) ≥85dB @ 435MHz ≥70dB @ 440MHz 100W (Co 5) Silver -30° N-Fe	product variant Exam Low 1 459.5-460.5MHZ over temperature ≥15dB (-30°~70°) ≥85dB @ 470MHz ≥70dB @ 465MHz pottinuous) DΩ Plated to 70°	HIgh 1 469.5-470.5MHZ < 1.75dB ≥85dB @ 460MHz	Low 2 464.5-465.5MHZ ≥85dB @ 475MHz	High 2 469.5-470.5MHZ ≥85dB @ 460MHz	

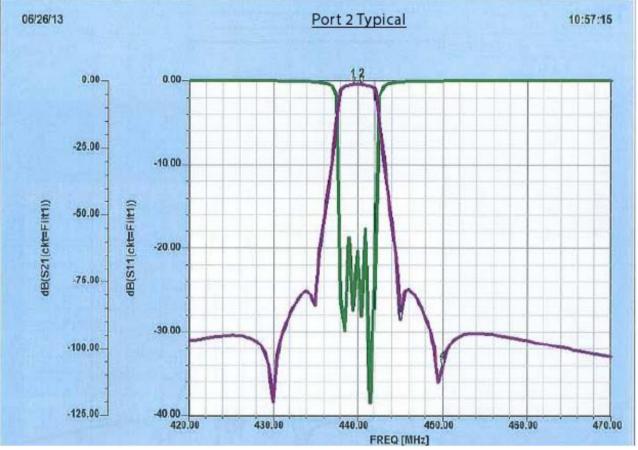
Product Orders						
Product Code	Frequency Band	Description				
ACC-BPD-415-DB-XX0T	400-430MHz	Tornado Dual Band Pass Duplexer, 400-430 MHz, incl 2RU Panel, 2x ACC-CBL-223-005-00S, 2x ACC-CBL-223-005-00N				
ACC-BPD-450-DB-XX0T	440-470MHz	Tornado Dual Band Pass Duplexer, 440-470 MHz, incl 2RU Panel, 2x ACC-CBL-223-005-00S, 2x ACC-CBL-223-005-00N				
ACC-BPD-415-DB-XX00	400-430MHz	SII Dual Band Pass Duplexer, 400-430 MHz, incl 2RU Panel, 4 x ACC-CBL-223-005-00N				
ACC-BPD-450-DB-XX00	440-470MHz	SII Dual Band Pass Duplexer, 440-470 MHz, incl 2RU Panel, 4 x ACC-CBL-223-005-00N				

Important: Specifications are subject to change without prior notice

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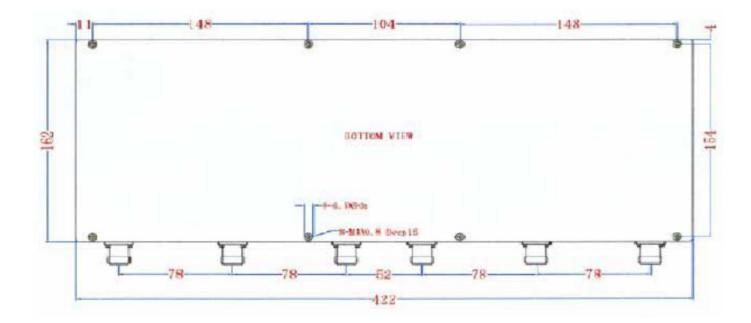
## DUAL BAND PASS EXTERNAL DUPLEXER 440-470MHZ VARIANT DUPLEXER RESPONSE

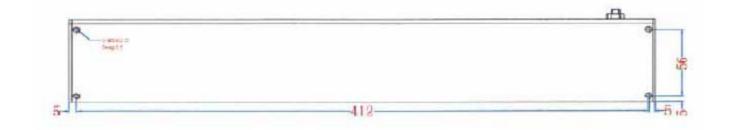


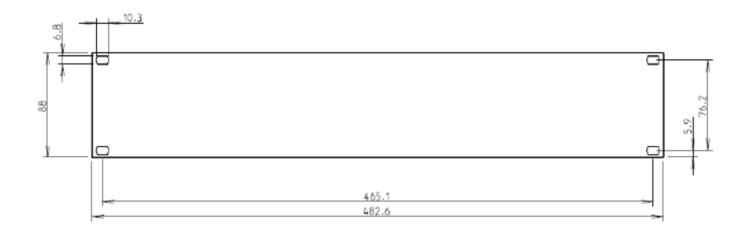


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