

Cavity Duplexer

ATD412.5M452.5M02N

Revision record

Date	Version	Author	Revision description	Comment
2024/09/20	V1.0	Sam	Created	/

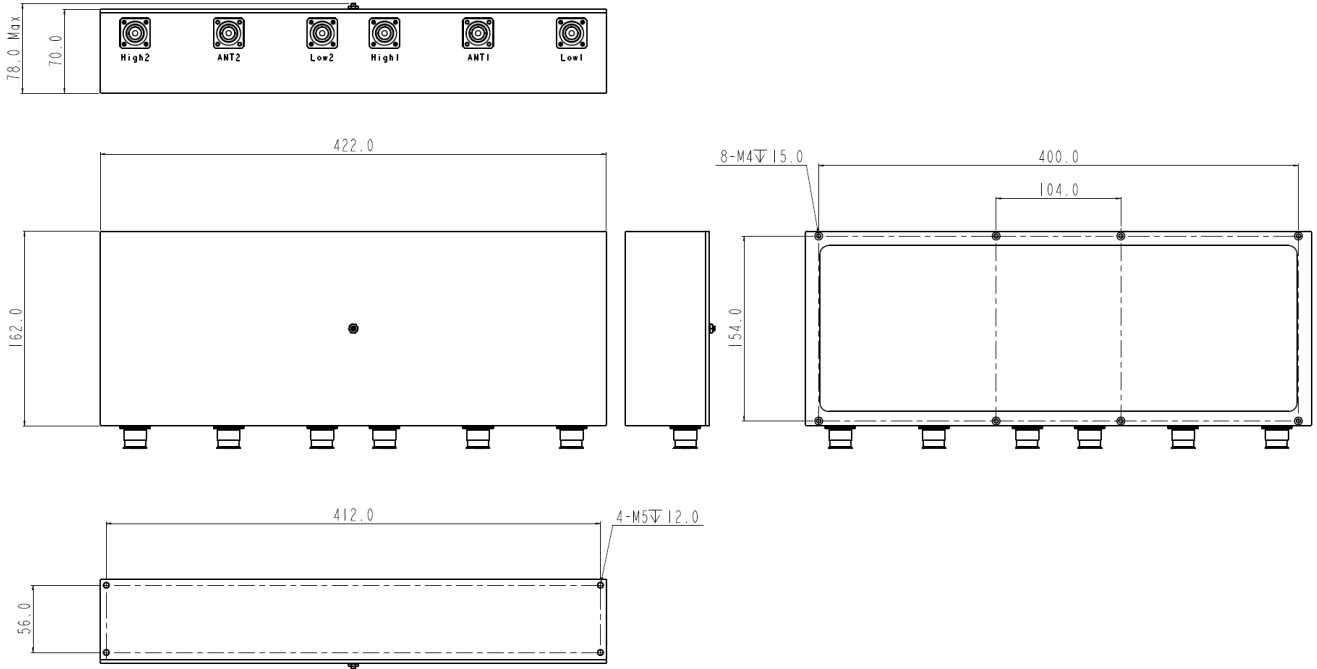
Electrical specification

Parameter		Specification	
		Pre-tuned and field tunable across 440~470MHz	
Frequency range		Low1/Low2	High1/High2
Insertion loss		Typically $\leq 1.0\text{dB}$, worst case over temperature $\leq 1.75\text{dB}$	
Bandwidth		1MHz	1MHz
Return loss	(Normal Temp)	$\geq 20\text{dB}$	$\geq 20\text{dB}$
	(Full Temp)	$\geq 15\text{dB}$	$\geq 15\text{dB}$
Rejection		$\geq 70\text{dB}@F_0+5\text{MHz}$	$\geq 70\text{dB}@F_0-5\text{MHz}$
		$\geq 85\text{dB}@F_0+10\text{MHz}$	$\geq 85\text{dB}@F_0-10\text{MHz}$
Power		100W	
Temperature range		-30°C to $+70^\circ\text{C}$	
Impedance		50 Ω	

Mechanical specification

Parameter	Specification
Dimension	L x W x H: 422mm x 162mm x 70mm (78.0mm Max)
Connectors	N-Female
Finish	White paint
Notes	Material shall be RoHS 6/6

Outline



Simulation curve

