

# Cavity Duplexer

## ATD400M410M02N

### Revision record

Date	Version	Author	Revision description	Comment
2024/09/20	V1.0	Sam	Created	/
2024/10/14	V1.1	Sam	Update	/

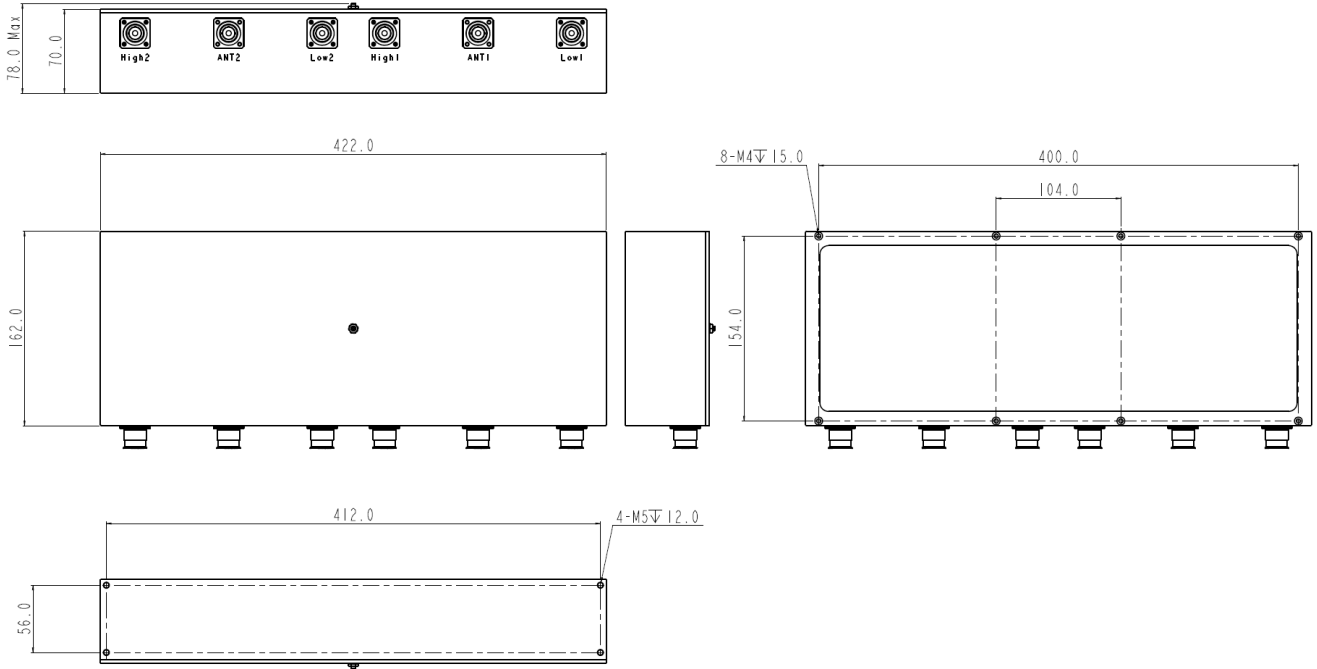
### Electrical specification

Parameter		Specification	
		Pre-tuned and field tunable across 400~430MHz	
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		$-30^\circ\text{C}$ to $+70^\circ\text{C}$	
Impedance		50 $\Omega$	

### 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

