

Monolithic Block Duplexer Preliminary Specification

(R4 Antenna Duplexer Band 2)

1. Properties:

No.	Characteristics	Unit	Tx → ANT	ANT → Rx
1	Frequency of operation	MHz	3435 to 3450	3535 to 3550
	Center Frequency (TxFc/RxFc)	MHz	3442.5 (TxFc)	3542.5 (RxFc)
2	Bandwidth	MHz	15.0	15.0
3	Insertion Loss in BW (max.)	dB	3.0	3.0
4	Ripple in BW (max.)	dB	0.5 (0.7)	0.5 (0.7)
5	V.S.W.R in BW (max.)	dB	1.5	1.5
6	Attenuation (min.)	dB	35 @ <2500 MHz	35 @ <2500 MHz
			5(4) @ (TxFc +/- 7.5) - 28	50 @ (RxFc +/- 7.5) - 100
			5 @ (TxFc +/- 7.5) + 28	50(30) @ (RxFc +/- 7.5) +100
			30(20) @ (TxFc +/- 7.5) - 70	35 @ (RxFc +/- 7.5) - 173
			30 @ (TxFc +/- 7.5) + 70	
			50(30) @ (TxFc +/- 7.5) - 100	35 @ (RxFc +/- 7.5) - 692
			50 @ (TxFc +/- 7.5) + 100	
			30 @ (TxFc +/- 7.5) - 316	35 @ 4000M to 5000MHz
			35 @ (TxFc +/- 7.5) - 632	
35 @ 4000M to 5000MHz				
5 @ (2TxFc +/- 7.5)				
7	Tx - Rx Isolation (min.)	dB	50 (3435-3450) - (3535-3550)	
8	In/Out Impedance	Ohm	50	50
9	Operation Temperature	C	-40 to +70	

2. Dimension:



