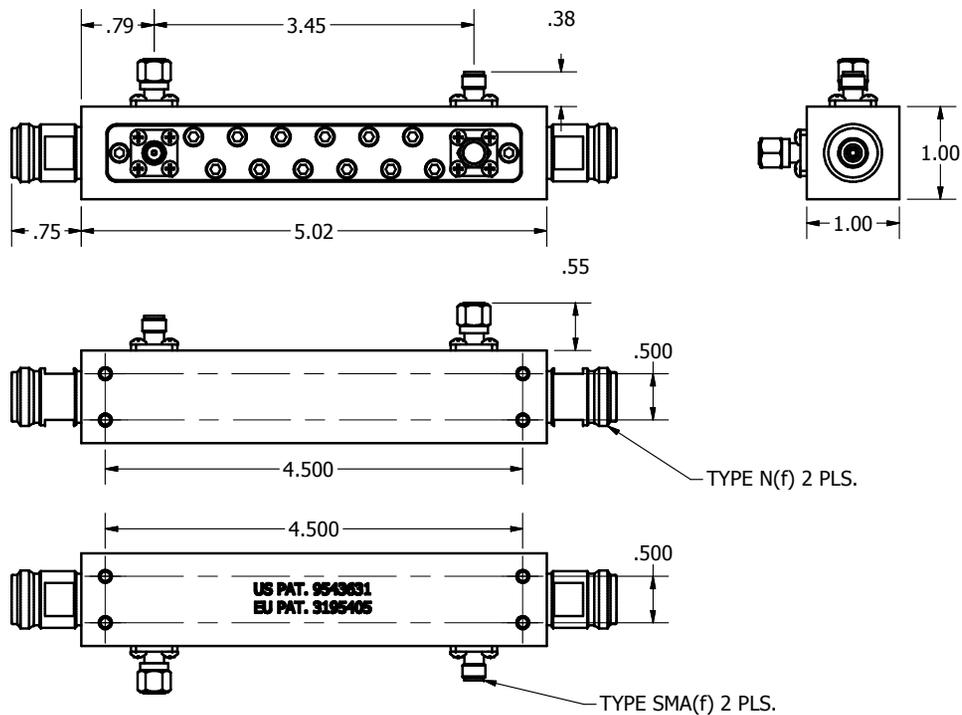


ELECTRICAL SPECIFICATIONS				
DESCRIPTION	30 Db	40 Db	50 Db	UNITS
COUPLING				
TYP @ 300 MHz :	37.75±2.0	47.7±2.0	58.3±2.5	dB
TYP @ 698 MHz :	31.6±1.5	41.7±1.5	52±2.0	dB
1-3 GHz :	30±1.4	40±1.5	50±1.5	dB
3-6 GHz :	30±1.4	40±1.5	50±1.5	dB
6-9 GHz :	30±1.4	40±1.5	50±1.5	dB
9-10 GHz :	30±1.5	40±1.7	50±2.0	dB
COUPLING FLATNESS :				
1-9 GHz :	±0.8	±0.8	±0.8	dB
INPUT, OUTPUT RETURN LOSS				
TYP @ 300 MHz :	30	30	30	dB
TYP @ 698 MHz :	30	30	30	dB
1-3 GHz :	25	25	25	dB
3-6 GHz :	17	16	16	dB
6-9 GHz :	16	15	15	dB
9-10 GHz :	15	15	15	dB
COUPLED PORT RETURN LOSS				
TYP @ 300 MHz :	25	25	20	dB
TYP @ 698 MHz :	25	25	18	dB
1-3 GHz :	18	18	12	dB
3-6 GHz :	15	16	9	dB
6-9 GHz :	12	13	8	dB
9-10 GHz :	11	6	7	dB
INSERTION LOSS				
TYP @ 300 MHz :	0.1	0.1	0.1	dB
TYP @ 698 MHz :	0.1	0.1	0.1	dB
1-3 GHz :	0.15	0.15	0.15	dB
3-6 GHz :	0.2	0.2	0.2	dB
6-9 GHz :	0.2	0.2	0.25	dB
9-10 GHz :	0.25	0.25	0.25	dB
DIRECTIVITY				
TYP @ 300 MHz :	20	20	22	dB
TYP @ 698 MHz :	24	24	22	dB
1-3 GHz :	18	18	18	dB
3-6 GHz :	14	14	12	dB
6-9 GHz :	11	11	9	dB
9-10 GHz :	10	10	8	dB
CROSS COUPLER ISOLATION				
TYP @ 300 MHz :	70	80	90	dB
TYP @ 698 MHz :	60	80	90	dB
1-3 GHz :	55	75	90	dB
3-6 GHz :	55	75	88	dB
6-9 GHz :	53	70	80	dB
9-10 GHz :	50	55	60	dB
IMPEDANCE :	50	50	50	OHMS
INPUT POWER (CW) :	500	500	500	WATTS
REVERSE POWER (CW) :	2	2	2	WATTS
INPUT POWER (PEAK) :	6000	6000	6000	WATTS

REVISION HISTORY				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	2	ENGINEERING RELEASE	9/15/25	TB



HOLE TOLERANCE: X.XXX ±.003
 LENGTH TOLERANCE: X.XX ±.003
 LENGTH TOLERANCE: X.XXX ±.010
 THREADS SPECIFICATION AFTER PLATING
 PROPERTY OF R&D MICROWAVES LLC
 US PAT. 9543631, EU PAT. 3195405

DRAWN ThomasB	9/15/2025		R&D Microwaves LLC, USA	
CHECKED			TITLE	
QA		DUAL DIRECTIONAL COUPLER 1-9.5 GHz		
MFG		SIZE B	DWG NO C2-A95-XXNS-OLrev2	REV 2
APPROVED		SCALE	SHEET 1 OF 1	