


# 43A1-8/8-E8XX

## ➤ Features:

- Solid State 8 x 8 Full Fan Out
- Expandable to 32 x 32
- May be optimized for specific frequency
- 10 – 2500 MHz



## ➤ Specifications:

 <b>MILLENNIUM MICROWAVE CORPORATION</b>	Customer:			Part Number: 43A1-8/8-E8AA		
	Customer PO:			Customer PN:		
	SN:		Date:		Millennium WO:	
	199-0026 Rev 1		Temp +25 deg C		QA: TECH:	

**S BAND SWITCH MATRIX TEST DATA SHEET**

In/Out path Measured 50 - 90MHz	Insertion Gain			Return Loss		Isolation		
	50	70	90	Input 9.5 dB min	Output 9.5 dB min	INPUT TO OUTPUT	INPUT TO INPUT	OUTPUT TO OUTPUT
1-1								
1-2								
1-3								
1-4								
1-5								
1-6								
1-7								
1-8								
2-1								
2-2								
2-3								
2-4								
2-5								
2-6								
2-7								
2-8								
3-1								
3-2								
3-3								
3-4								
3-5								
3-6								
3-7								
3-8								
4-1								
4-2								
4-3								
4-4								
4-5								
4-6								
4-7								
4-8								



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CORPORATION**

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# 43A1-8/8-E8XX



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Customer:		Part Number: 43A1-8/8-E8AA	
Customer PO:		Customer PN:	
SN:	Date:	Millennium WO:	
199-0026 Rev 1	Temp +25 deg C	QA:	TECH:

### SWITCH MATRIX TEST DATA SHEET

In/Out path Measured 50 - 90MHz	Return Loss			Isolation				
	50	70	90	Input 9.5 dB min	Output 9.5 dB min	INPUT TO OUTPUT	INPUT TO INPUT	OUTPUT TO OUTPUT
5-1								
5-2								
5-3								
5-4								
5-5								
5-6								
5-7								
5-8								
6-1								
6-2								
6-3								
6-4								
6-5								
6-6								
6-7								
6-8								
7-1								
7-2								
7-3								
7-4								
7-5								
7-6								
7-7								
7-8								
8-1								
8-2								
8-3								
8-4								
8-5								
8-6								
8-7								
8-8								



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Isolation measurements									
INPUT TO OUTPUT									
Reference: 008-0178									
	IN	OUT							
Select	2	1		RF in 2	RF out 1				
	Normalize response								
Select	1	1		RF in 2	RF out 1				1
	Record worst case isolation dBc								
Select	3	1		RF in 2	RF out 1				2
	Record worst case isolation dBc								
Select	5	1		RF in 5	RF out 1				3
	Normalize response								
Select	4	1		RF in 5	RF out 1				4
	Record worst case isolation dBc								
Select	6	1		RF in 5	RF out 1				5
	Record worst case isolation dBc								
Select	7	5		RF in 7	RF out 5				6
	Normalize response								
Select	6	5		RF in 7	RF out 5				7
	Record worst case isolation dBc								
Select	8	5		RF in 7	RF out 5				8
	Record worst case isolation dBc								
Select	4	5		RF in 4	RF out 5				
	Normalize response								
Select	5	5		RF in 4	RF out 5				
	Record worst case isolation dBc								
Select	3	5		RF in 4	RF out 5				
	Record worst case isolation dBc								

Isolation measurements									
INPUT TO INPUT									
Reference: 008-0182									
CONNECT ALL INPUTS TO THEIR RESPECTIVE OUTPUTS,									
Select	1	1							
Select	2	2							
Select	3	3							
Select	4	4							
Select	5	5							
Select	6	6							
Select	7	7							
Select	8	8							
RF IN	TERMINATE	RF OUT							
IN 1	OUT 1								
	IN2	OUT 2							1
Record worst case isolation dBa									
IN 2	OUT 2								
	IN 1	OUT 1							2
Record worst case isolation dBa									
	IN 3	OUT 1							
Record worst case isolation dBa									
		OUT 3							3
Record worst case isolation dBa									
IN 4	OUT 4								
	IN5	OUT 5							4
Record worst case isolation dBa									
		OUT 3							5
Record worst case isolation dBa									

Isolation measurements									
OUTPUT TO OUTPUT									
Reference: 008-0179									
	RF IN	RF OUT							
Select	1	1		OUTPUT 1					
Select	1	2			OUTPUT 2				1
	Record worst case isolation dBc								
Select	1	8			OUTPUT 8				2
	Record worst case isolation dBc								
Select	5	5		OUTPUT 5					
Select	5	4			OUTPUT 4				3
	Record worst case isolation dBc								
Select	5	6			OUTPUT 6				4
	Record worst case isolation dBc								

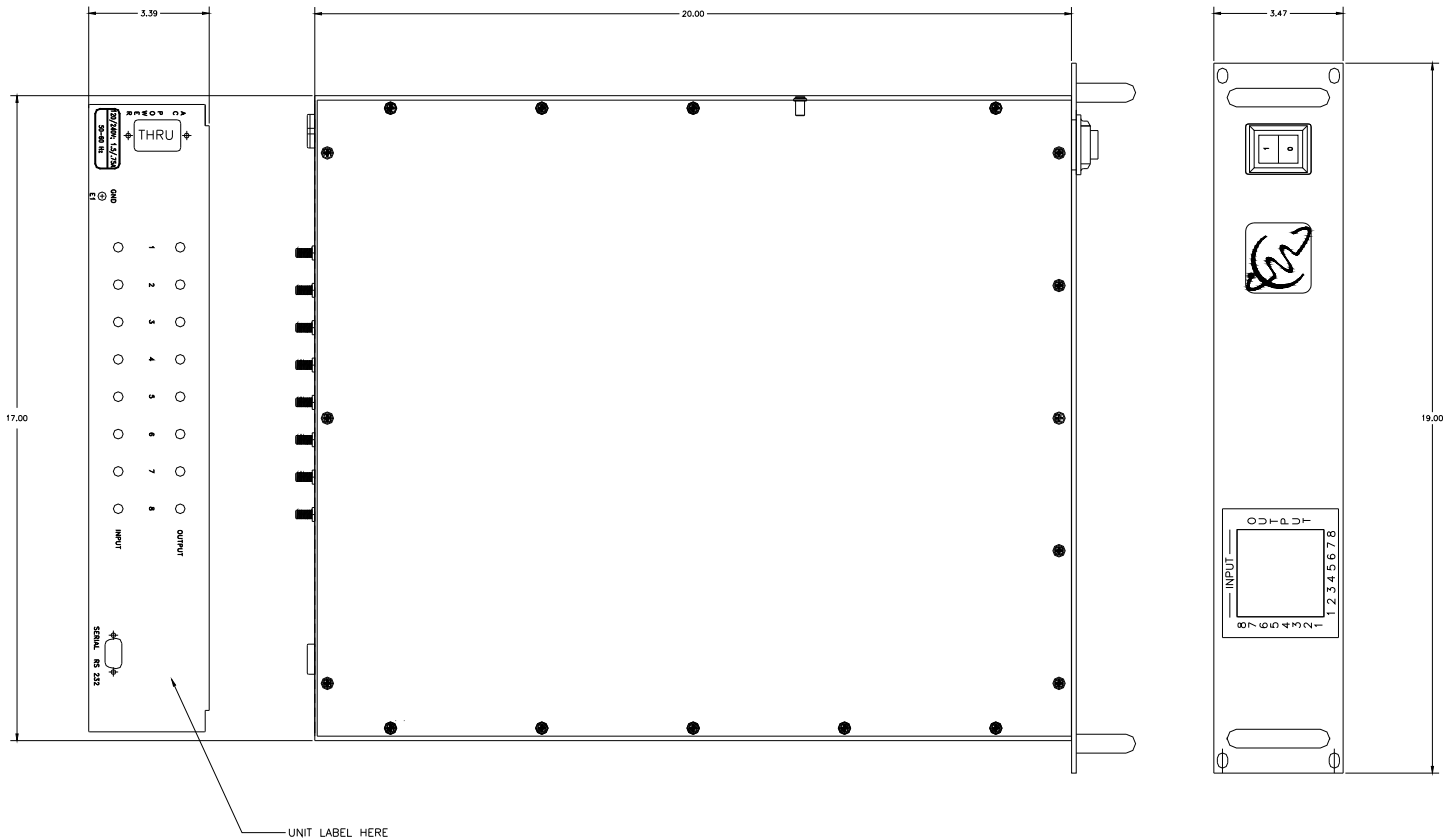
Insertion Gain			
Full Fan-Out			
	Frequencies		
	50 MHz	70 MHz	90 MHz
1-1			
2-1			
3-1			
4-1			
5-1			
6-1			
7-1			
8-1			



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➤ **Outline Drawing:**  
**003-9102**



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