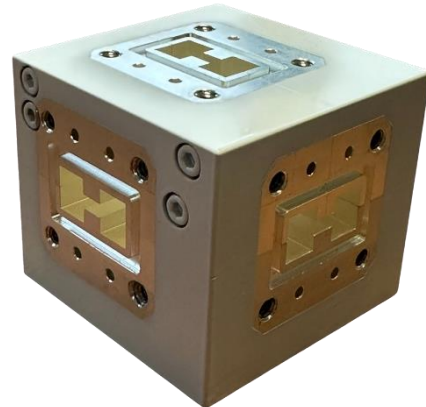


**UNCLASSIFIED**

**DATASHEET**

**Product Features**

- 6.0 to 12.0 GHz Frequency Range
- E to H Port Isolation 25 dB Min
- WRD580 double Ridge Wave guide



**Applications**

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communication

**Description**

DVB-TECH Introduces a dynamic logging range Magic Tee product. This product operates in bands across the 6.0 to 12 GHz frequency range. Magic T has the best reflection coefficients, thus providing excellent absolute accuracy.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	6.0		12.0	GHz
VSWR H-Plane		1.25:1	1.4:1	
VSWR E-Plane		1.25:1	1.4:1	
Power Imbalance	±0.1	±0.15	±0.25	dB
Bandwidth		6.0		GHz
Isolation E plane to H plane	-27	-25	-23	dB
Insertion Loss	0.15	0.2	0.3	dB
Isolation Collinear Arms	-22	-20	-17	dB

**Mechanical Specifications**

**Size**

- Length 56.5mm [ 2.22 in]
- Width 56.9mm [ 2.24 in]
- Height 50.36mm [ 1.98 in]
- Weight 400 g [ 0.881 lb.]
- Material Aluminum 6061 T6
- Surface Finish Silver-Plated

**Environmental Specifications**

**Temperature**

- Operating Range -40° C to 85 ° C
- Pressure Sealed to 30 PSI

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Typical Performance Data



Figure 1 Reflection Coefficient at Port 1

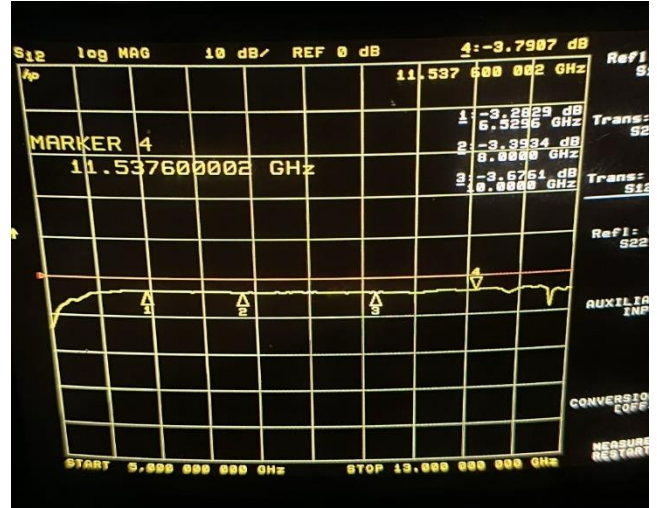


Figure 2 Isolation (Reverse)

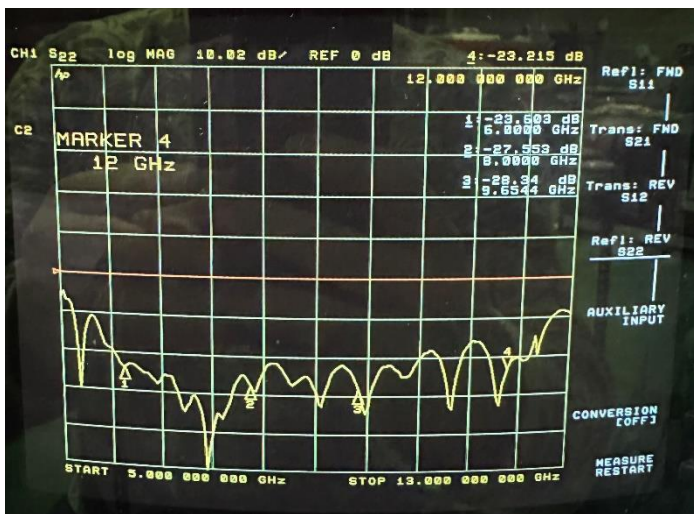


Figure 3 Reflection Coefficient at Port 2



Figure 4 Isolation

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Contact Information

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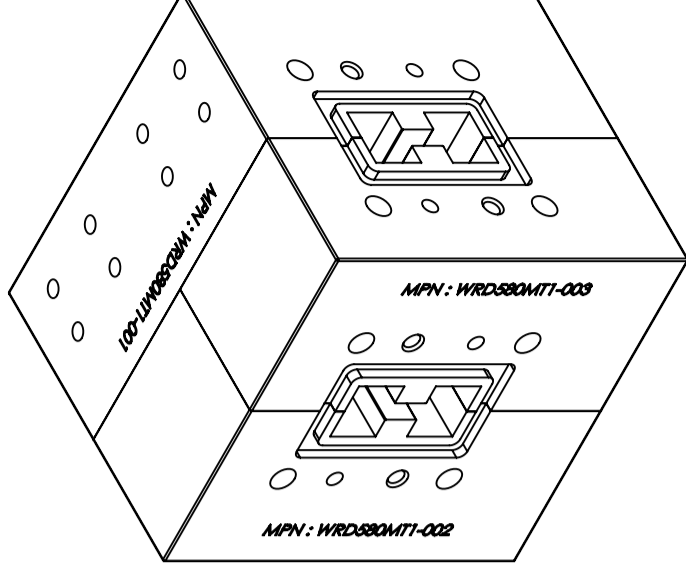
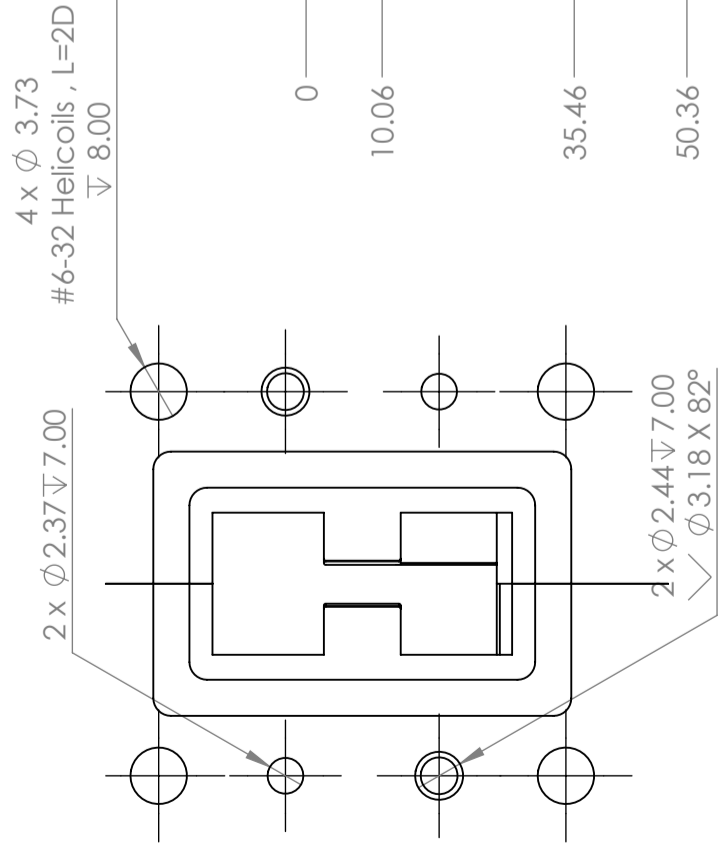
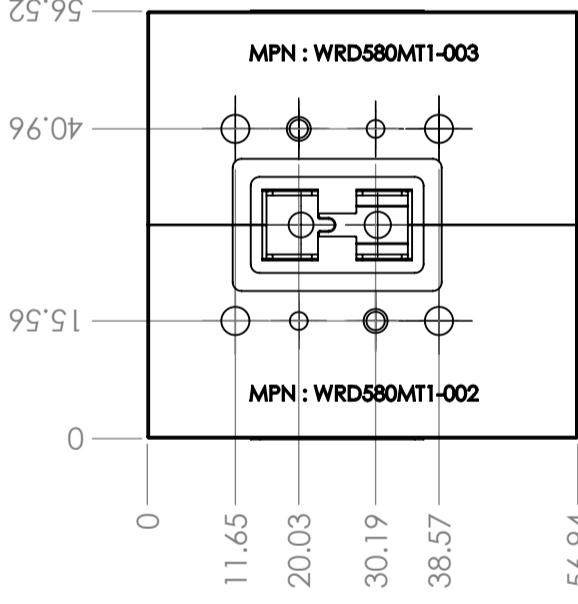
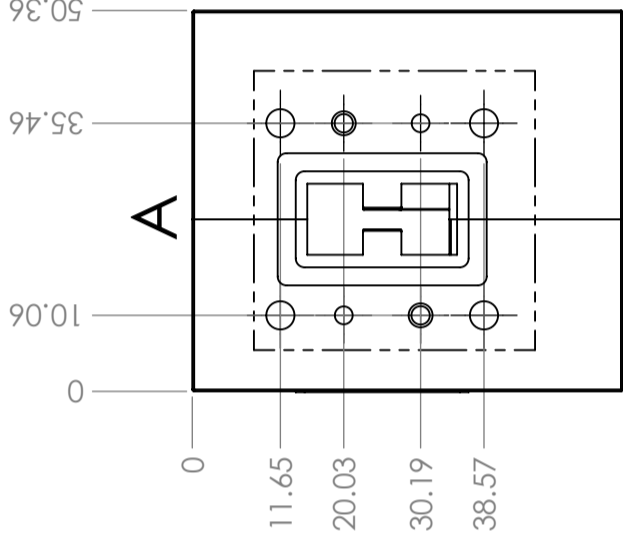
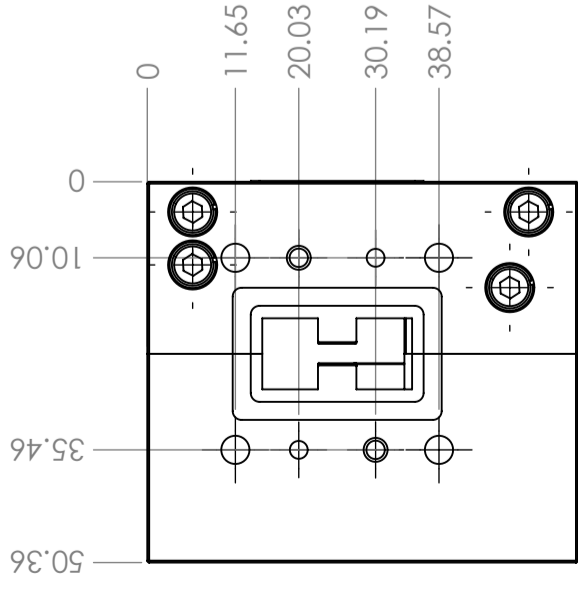
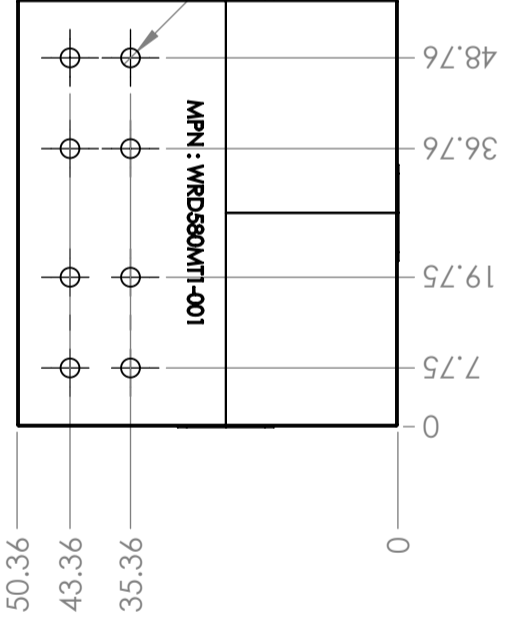


REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
00	Release	14/06/2023	MoinM



8 x Ø 2.50  $\nabla$  4.00  
M3x0.5 - 6H  $\nabla$  3.50



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NAME	DATE
MoinM	27-03-23
KarenS	27-03-23
ArtInuM	14-06-23

**DVB/TECH**

DEBURR AND BREAK SHARP EDGES  
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS



X ± 0.50  
XX ± 0.10  
.XXX ± 0.05  
 $\sphericalangle$  ± 0.5

WRD580 Magic T

TITLE:

SIZE A3	SCALE 1:1	PART NO. DVB-0612-WRD580-MT-A	DWG NO. 0612-WRD580-MT-DS	REVISION 00
DO NOT SCALE DRAWING		MATERIAL: Aluminium 6061	FINISH: Silver-Plated	SHEET 1 OF 1

Flange HoleCallouts