



RF PRODUCT CATALOG

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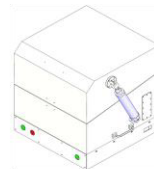
Pneumatic Press (PP) Shielding Box



EQ-PP 404030
Pneumatic Press Shielding Box



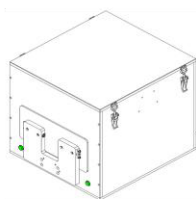
EQ-PP 505040
Pneumatic Press Shielding Box



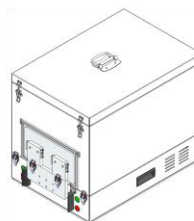
EQ-PP 454540
Pneumatic Press Shielding Box



EQ-PP H35
Pneumatic Press Shielding Box



EQ-PP H45
Pneumatic Press Shielding Box



EQ-PP H55
Pneumatic Press Shielding Box

Manual Press (MP) Shielding Box



EQ-MP 404030
Manual Press Shielding Box



EQ-MP 505040
Manual Press Shielding Box



EQ-MP 454540
Manual Press Shielding Box



EQ-MP 302016
Manual Press Shielding Box



EQ-MP 352516
Manual Press Shielding Box



EQ-MP F485
Manual Press Shielding Box



EQ-MP F385
Manual Press Shielding Box

EQ - PP 404030 Pneumatic Press Shielding Box

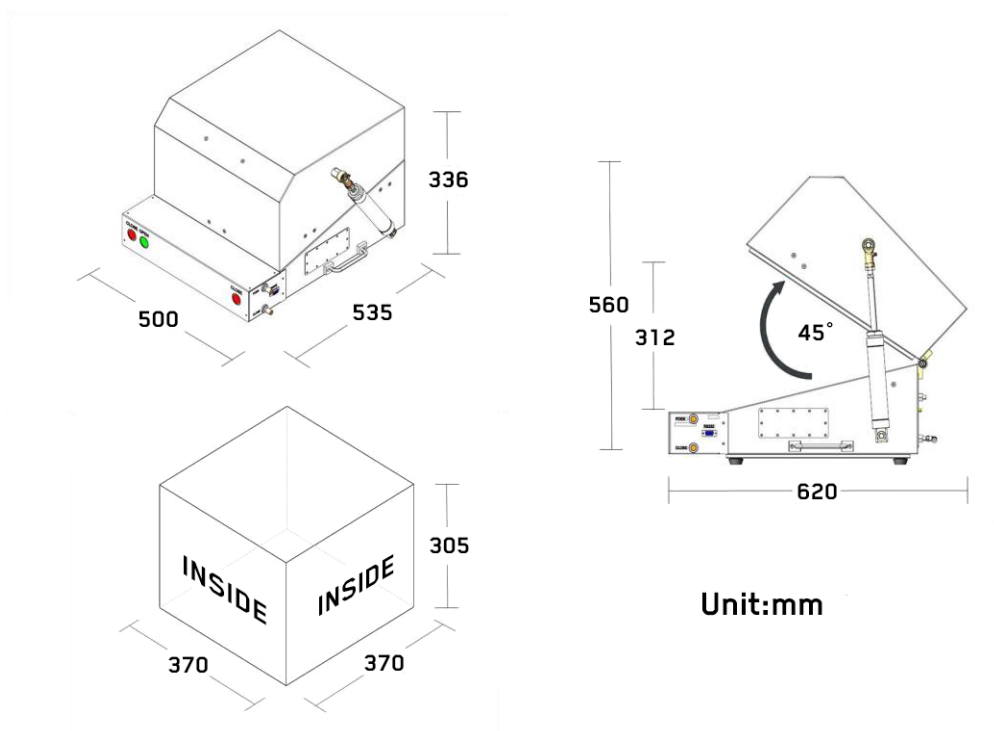


- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Lift up as clamshell, easy to set the DUT
- Foolproof design
- Match to various filters
- Front-end switchboard, easy to maintain.

Specification:

Exterior Dimension (W×D×H)	505×535×336 mm	Interior Dimension (W×D×H)	370×370×305 mm
Material	Galvanized sheet steel	Isolation	> 80 dB (2.4 GHz and 5.8 GHz, without filter)
Weight	25 kg	Open mode	Lift up as clamshell
SMA	SMA ×6	Hose of Box	Φ 6 mm
Power Input	AC100 - 220V	Hose of Fixture	Φ 4 mm
Power Consumption	30W	Input Pressure	> 6 kg/cm ²

Dimension:



EQ - PP 505040 Pneumatic Press Shielding Box

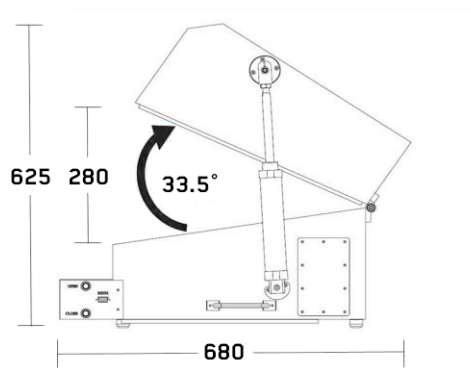
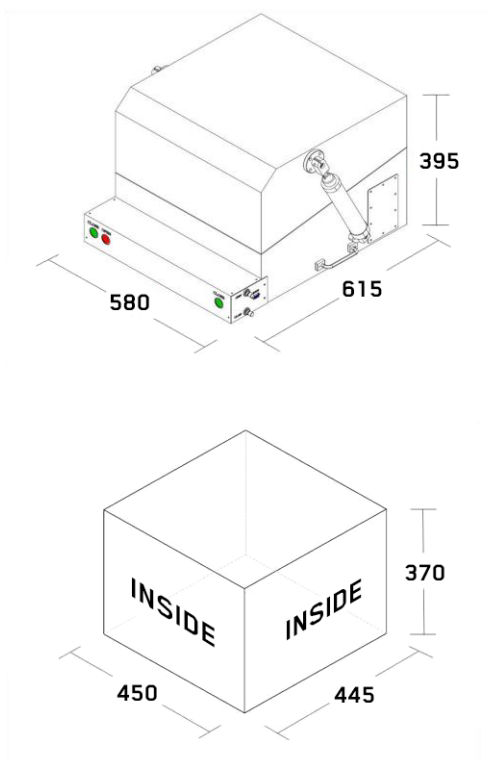


- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Lift up as clamshell, easy to set the DUT
- Foolproof design
- Match to various filters
- Front-end switchboard, easy to maintain.

Specification:

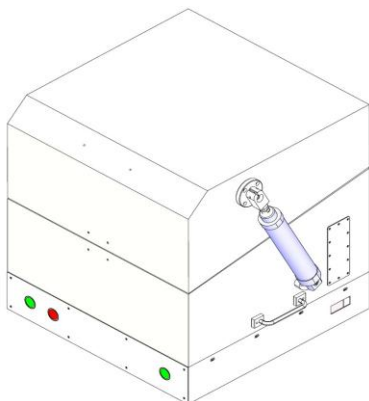
Exterior Dimension (W×D×H)	580×615×395 mm	Interior Dimension (W×D×H)	450×475×370 mm
Material	Galvanized sheet steel	Isolation	> 80 dB (2.4GHz and 5.8GHz, without filter)
Weight	35 kg	Open mode	Lift up as clamshell
SMA	SMA ×6	Hose of Box	Φ 6 mm
Power Input	AC 100 – 220 V	Hose of Fixture	Φ 4 mm
Power Consumption	30 W	Input Pressure	> 6 kg/cm ²

Dimension:



Unit:mm

EQ - PP 454540 Pneumatic Press Shielding Box

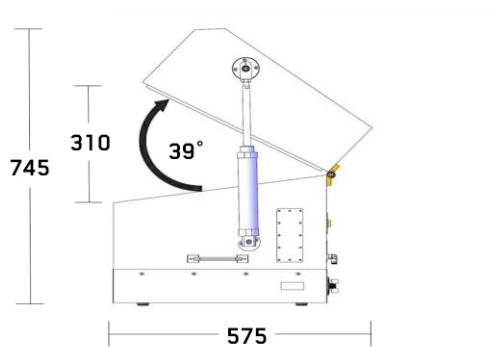
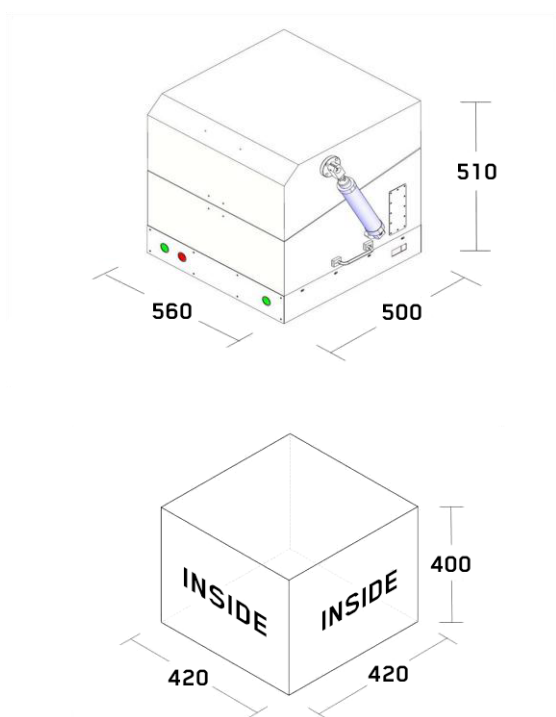


- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Lift up as clamshell, easy to set the DUT
- Foolproof design
- Match to various filters
- Front-end switchboard, easy to maintain

Specification:

Exterior Dimension (W×D×H)	560×500×510 mm	Interior Dimension (W×D×H)	420×420×400 mm
Material	Galvanized sheet steel	Isolation	>80 dB (2.4 GHz and 5.8 GHz, without filter)
Weight	35 kg	Open mode	Lift up as clamshell
SMA	SMA ×6	Hose of Box	Φ 6 mm
Power Input	AC 100 – 220 V	Hose of Fixture	Φ 4 mm
Power Consumption	30 W	Input Pressure	> 6 kg/cm ²

Dimension:



Unit:mm

EQ - PP H35 Pneumatic Press Shielding Box

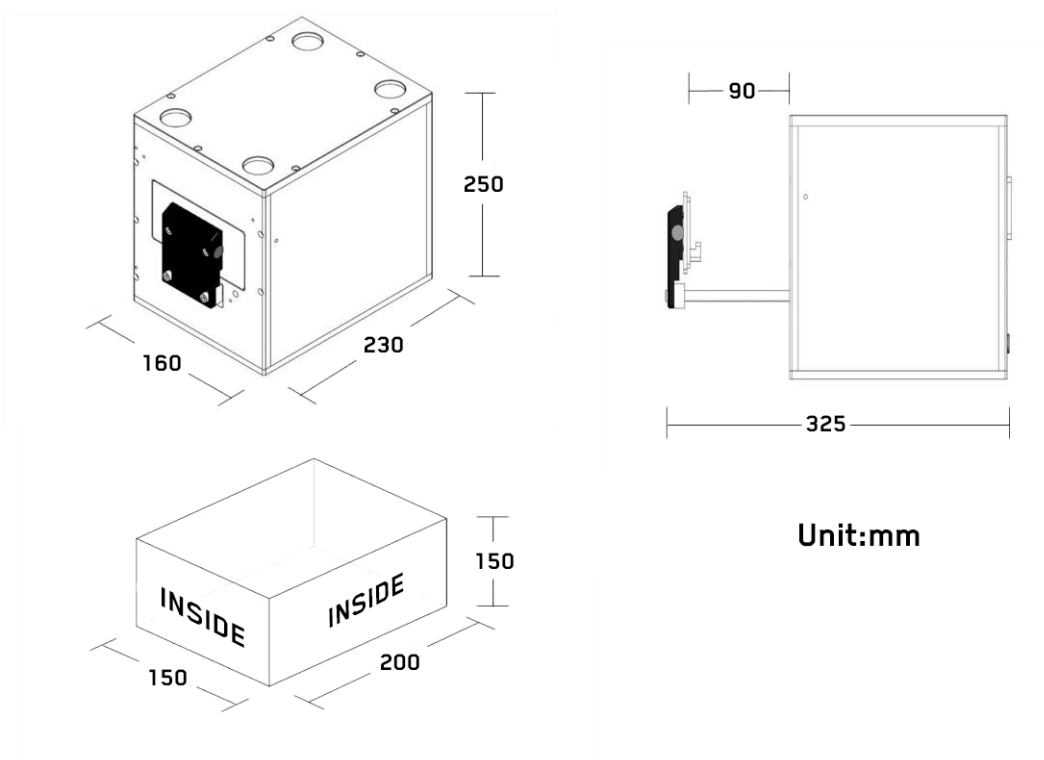


- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Match to various filters
- Customized fixture

Specification:

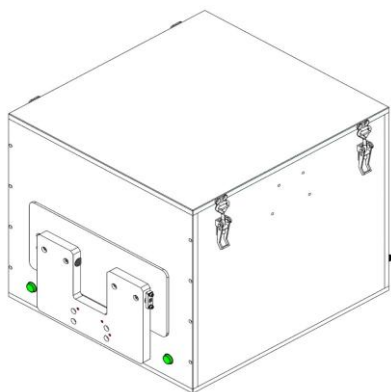
Exterior Dimension (W×D×H)	160×230×250 mm	Interior Dimension (W×D×H)	135×200×150 mm
Material	Aluminum alloy	Isolation	>70 dB (2.4 GHz and 5.8 GHz, without filter)
Weight	10 kg	Open mode	Drawer type
SMA	SMA ×6	Hose of Box	Φ 6 mm
Power Input	DC 24 V, 1 A	Hose of Fixture	Φ 4 mm
Power Consumption	25 W	Input Pressure	> 6 kg/cm ²

Dimension:



For more technical information, please contact us by :
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EQ - PP H45 Pneumatic Press Shielding Box

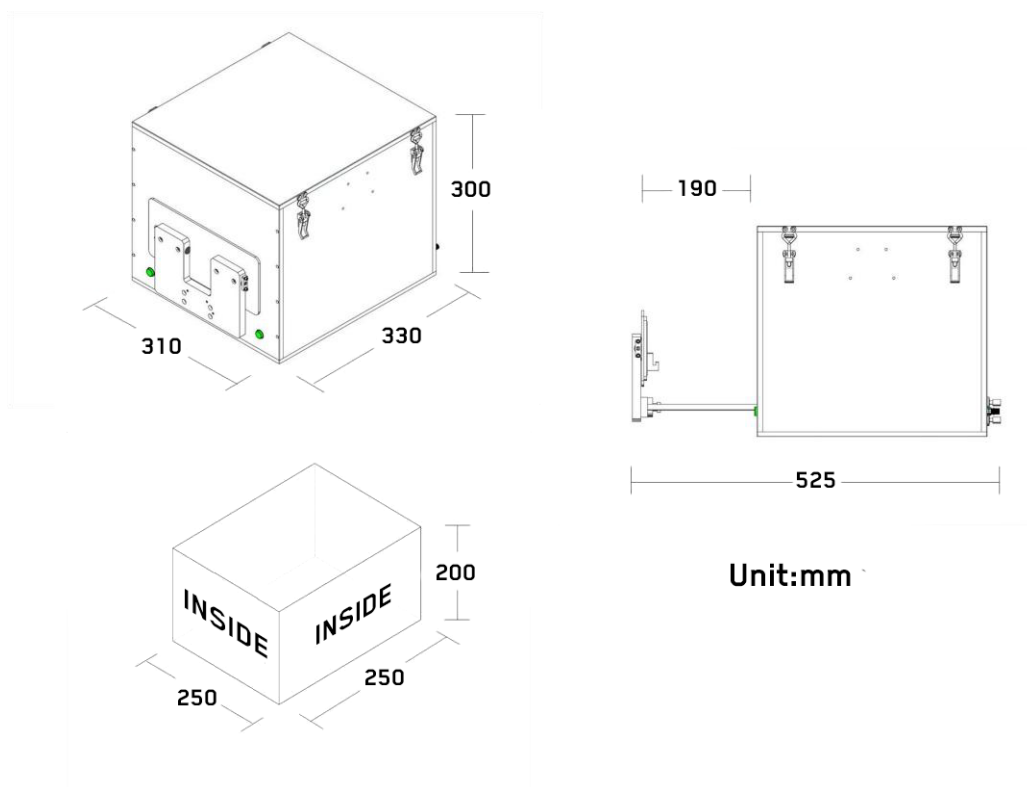


- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Match to various filters
- Customized fixture

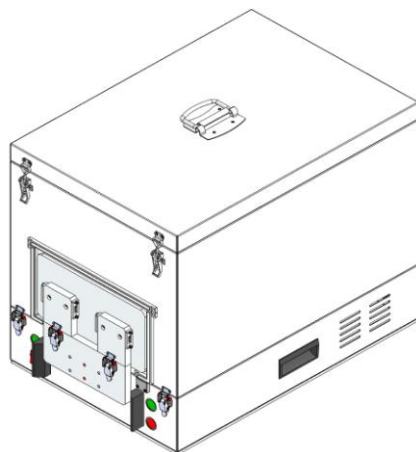
Specification:

Exterior Dimension (W×D×H)	310×330×300 mm	Interior Dimension (W×D×H)	250×250×200 mm
Material	Aluminum alloy	Isolation	>70 dB (2.4 GHz and 5.8G Hz, without filter)
Weight	14 kg	Open mode	Drawer type
SMA	SMA ×6	Hose of Box	Φ 6 mm
Power Input	DC 24 V, 1 A	Hose of Fixture	Φ 4 mm
Power Consumption	25 W	Input Pressure	> 6 kg/cm ²

Dimension:



EQ - PP H55 Pneumatic Press Shielding Box

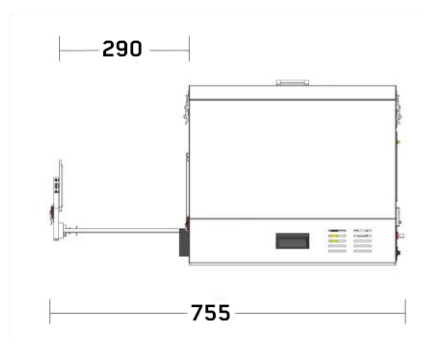
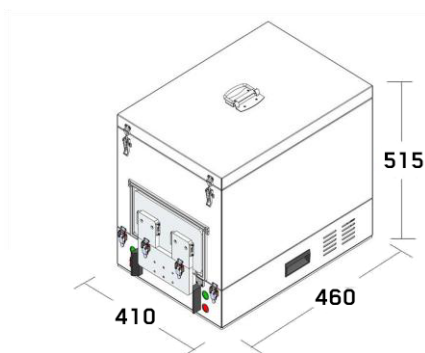


- Apply to Bluetooth, WCDMA, WLAN field
- Able to connect to computer by RS 232
- Match to various filters
- Customized fixture

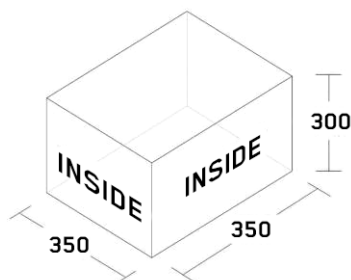
Specification:

Exterior Dimension (W×D×H)	410×460×515 mm	Interior Dimension (W×D×H)	350×350×300 mm
Material	Aluminum alloy	Isolation	>70 dB (2.4 GHz and 5.8G Hz, without filter)
Weight	18 kg	Open mode	Drawer type
SMA	SMA ×6	Hose of Box	Φ 6 mm
Power Input	DC 24 V, 1 A	Hose of Fixture	Φ 4 mm
Power Consumption	25 W	Input Pressure	> 6 kg/cm ²

Dimension:



Unit:mm



EQ - MP 404030 Manual Press Shielding Box

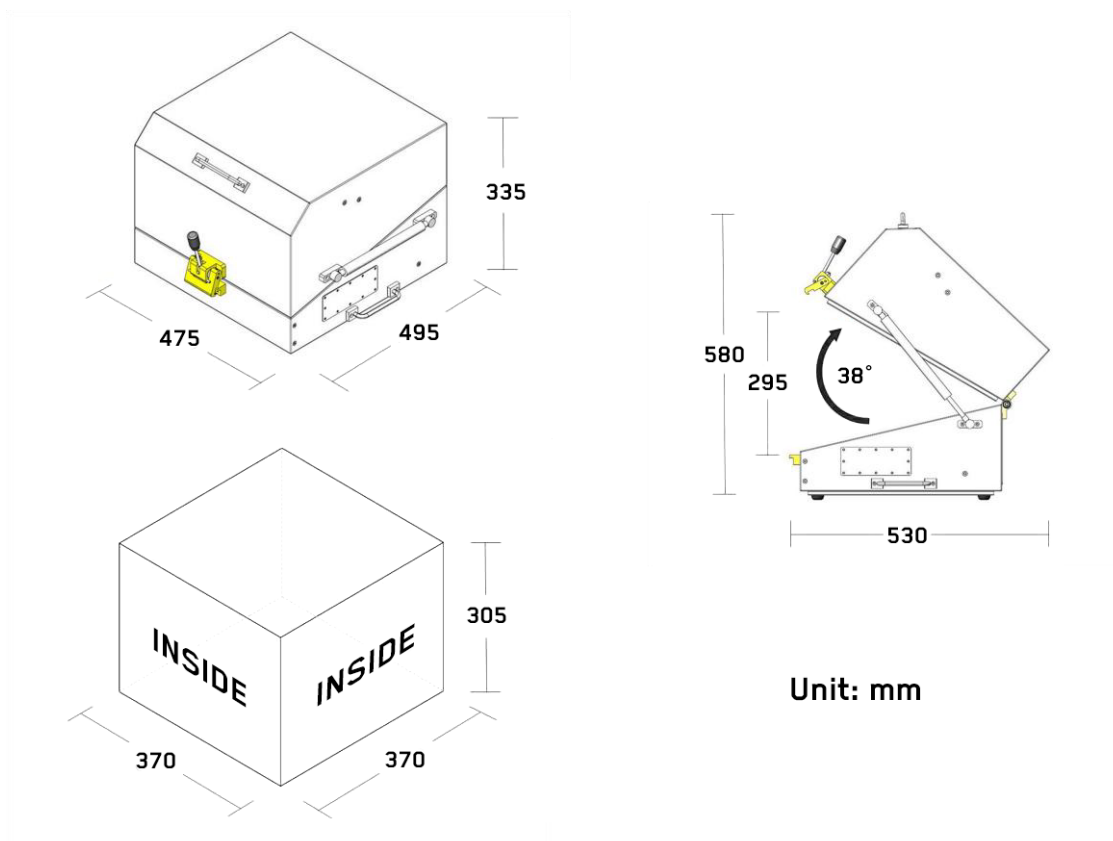


- Apply to Bluetooth, WCDMA, WLAN field
- Lift up as clamshell, easy to set the DUT
- Match to various filters

Specification:

Exterior Dimension (WxDxH)	475x495x 335 mm	Interior Dimension (WxDxH)	370x370x305 mm
Material	Galvanized sheet steel	Isolation	>80 dB (2.4 GHz and 5.8 GHz, without filter)
Weight	20 kg	Open mode	Lift up as clamshell
SMA	SMA x6	Support	Gas spring

Dimension:



EQ - MP 505040 Manual Press Shielding Box

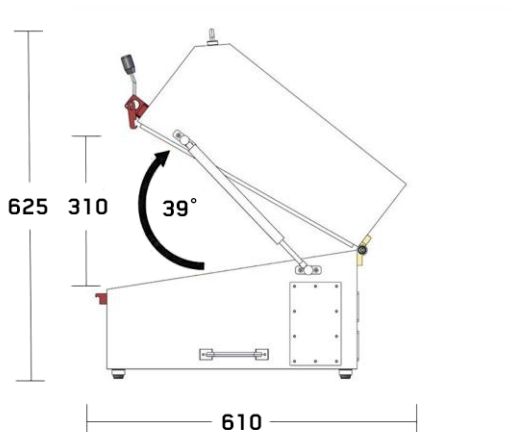
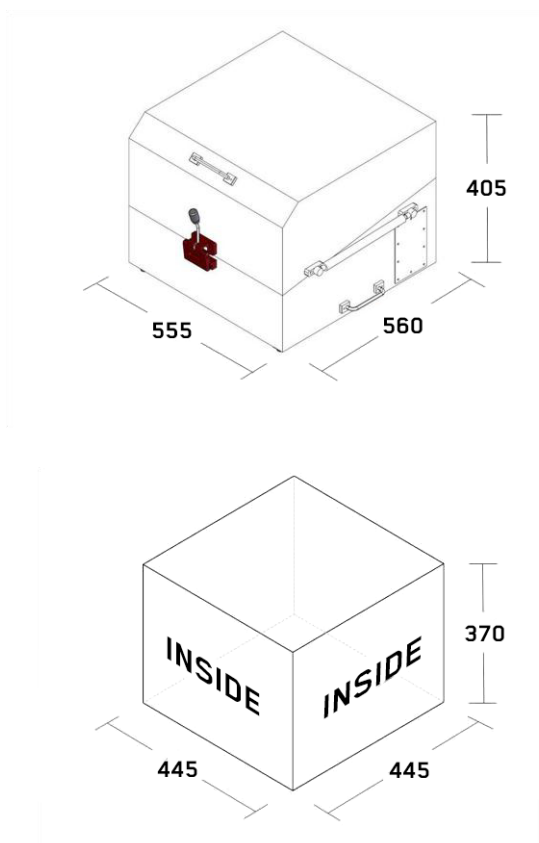


- Apply to Bluetooth, WCDMA, WLAN field
- Lift up as clamshell, easy to set the DUT
- Match to various filters

Specification:

Exterior Dimension (W×D×H)	555 × 560 × 405 mm	Interior Dimension (W×D×H)	445×445×370 mm
Material	Galvanized sheet steel	Isolation	>80 dB (2.4 GHz and 5.8 GHz, without filter)
Weight	25 kg	Open mode	Lift up as clamshell
SMA	SMA ×6	Support	Gas spring

Dimension:



Unit: mm

EQ - MP 454540 Manual Press Shielding Box

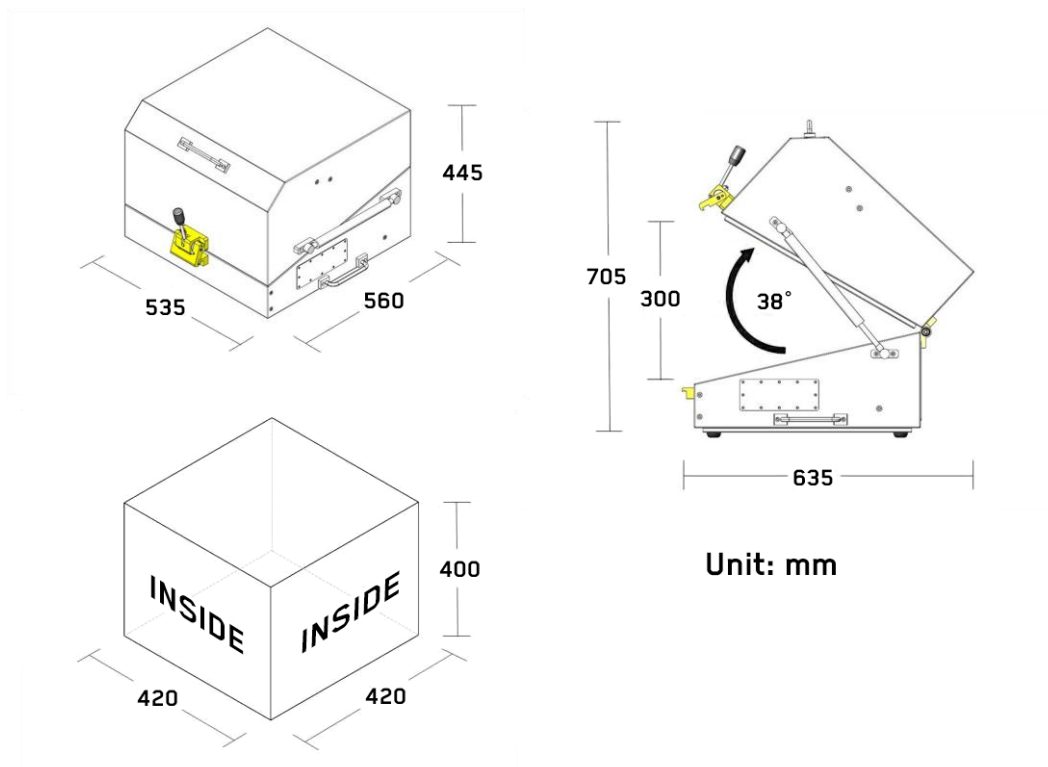


- Apply to Bluetooth, WCDMA, WLAN field
- Lift up as clamshell, easy to set the DUT
- Match to various filters

Specification:

Exterior Dimension (W×D×H)	535×560×445 mm	Interior Dimension (W×D×H)	420×420×400 mm
Material	Galvanized sheet steel	Isolation	>80 dB (2.4 GHz and 5.8 GHz, without filter)
Weight	25 kg	Open mode	Lift up as clamshell
SMA	SMA ×6	Support	Gas spring

Dimension:



EQ - MP 352516 Manual Press Shielding Box

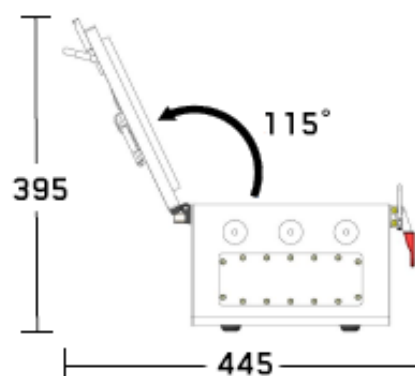
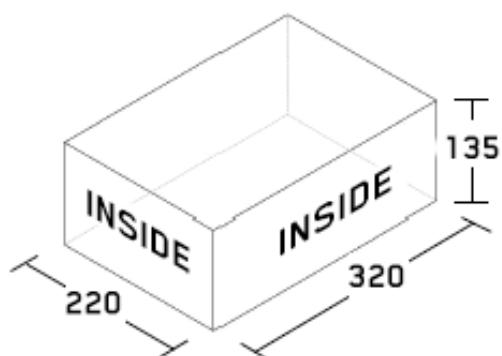
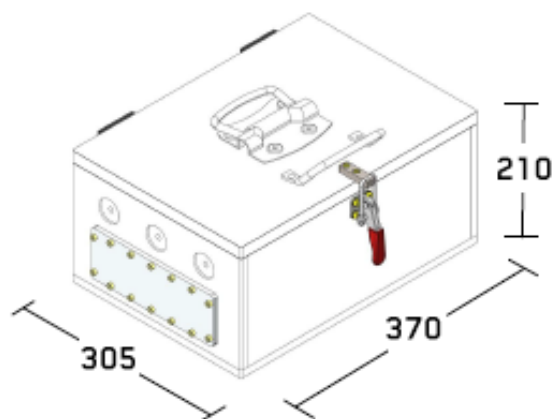


- Apply to Bluetooth, WCDMA, WLAN field
- Lid-open, easy to set the DUT
- Match to various filters

Specification:

Exterior Dimension (W×D×H)	350×370×210 mm	Interior Dimension (W×D×H)	220×320×135 mm
Material	Aluminum alloy	Isolation	>80 dB (2.4 GHz and 5.8 GHz, without filter)
Weight	15 kg	Open mode	Lift up
SMA	SMA ×3		

Dimension:



Unit: mm

EQ - MP 302016 Manual Press Shielding Box

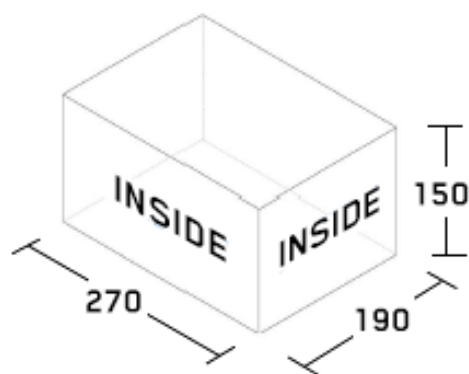
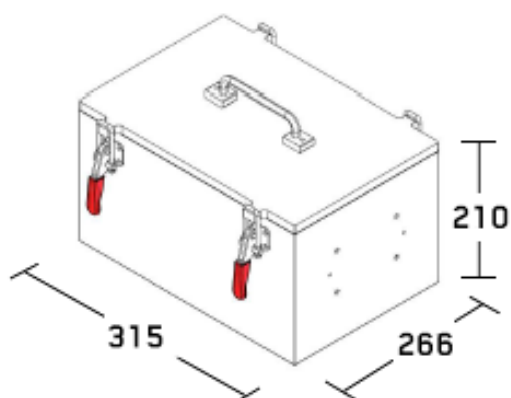


- Apply to Bluetooth, WCDMA, WLAN field
- Separable lid, easy to set the DUT
- Match to various filters

Specification:

Exterior Dimension (W×D×H)	315×266×210 mm	Interior Dimension (W×D×H)	270×165×150 mm
Material	Galvanized sheet steel	Isolation	>80 dB (2.4 GHz and 5.8 GHz, without filter)
Weight	8 kg	Open mode	Separable lid
SMA	SMA ×3		

Dimension:



Unit: mm

EQ - MP F485 Manual Press Shielding Box

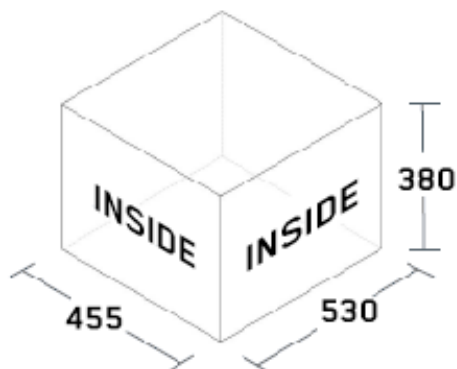
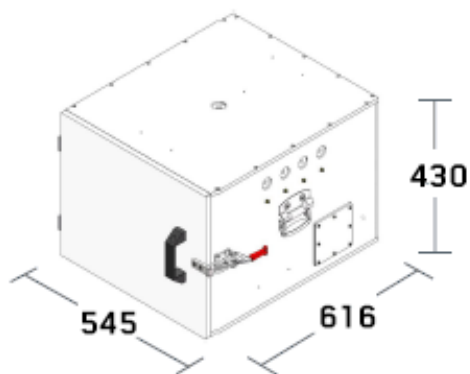


- Apply to Bluetooth, WCDMA, WLAN field
- side-open, easy to set the DUT
- Match to various filters

Specification:

Exterior Dimension (W×D×H)	545 × 616 × 430 mm	Interior Dimension (W×D×H)	455×530×380 mm
Material	Aluminum alloy	Isolation	>80 dB (2.4 GHz and 5.8 GHz, without filter)
Weight	40 kg	Open mode	Side open
SMA	SMA ×9	Vent	2

Dimension:



Unit: mm

EQ - MP F385 Manual Press Shielding Box

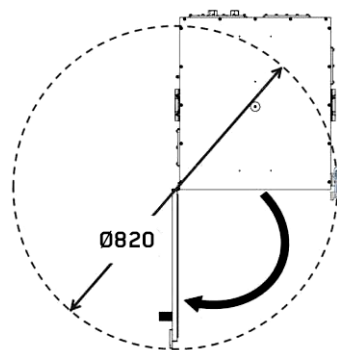
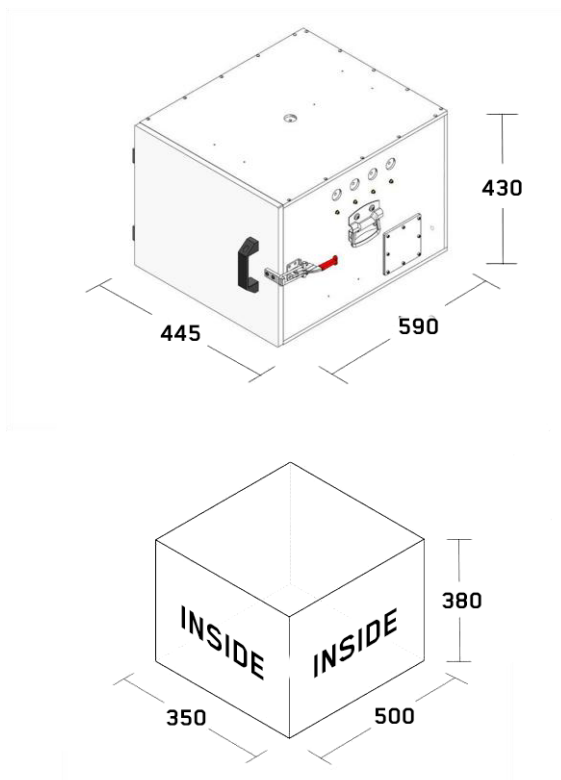


- Apply to Bluetooth, WCDMA, WLAN field
- side-open, easy to set the DUT
- Match to various filters

Specification:

Exterior Dimension (W×D×H)	445×590×430 mm	Interior Dimension (W×D×H)	350×500×380 mm
Material	Aluminum alloy	Isolation	>80 dB (2.4 GHz and 5.8 GHz, without filter)
Weight	35 kg	Open mode	Side open
SMA	SMA ×9	Vent	2

Dimension:

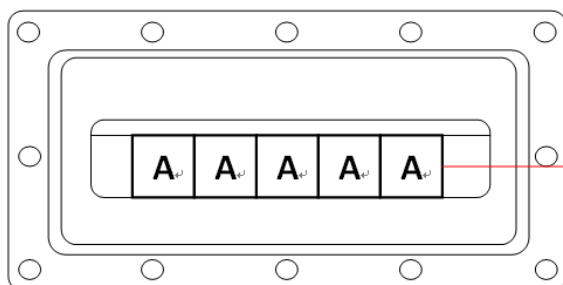


Unit: mm

FILTER



- Fit in with all shielding boxes
- Various connectors to choose
- High isolation



This space is reserved for the interface as following.

Optional interface:

Interface Size	RJ45	USB	DC	RJ11	PS2	RCA	USB(雙層)	AC	RS232	HDMI	VGA
A	V	V	V	V	V	V	V				
AA								V	V	V	V
Single											

Type	Voltage withstand	Current withstand	Frequency	Shield Effectiveness
RS232	50 V	200 mA	600 MHz	>80 dB
VGA	50 V	200 mA	600 MHz	>80 dB
HDMI	50 V	200 mA	600 MHz	>80 dB
AC	250 V	2000 mA	600 MHz	>80 dB
USB	50 V	200 mA	600 MHz	>80 dB
RJ45	50 V	200 mA	600 MHz	>80 dB
RJ11	50 V	200 mA	600 MHz	>80 dB
PS2	50 V	200 mA	600 MHz	>80 dB
DC	50 V	2000 mA	600 MHz	>80 dB
RCA	50 V	2000 mA	600 MHz	>80 dB

RF Adapter



SMA(F)-SMA(F)



RSMA(F)-RSMA(F)



SMA(F)-RSMA(F)



SMA(F)-RSMA(M)



RSMA(M)quick to
SMA(F)



SMA(M)-RSMA(F)



SMA(M)-SMA(F)



RSMA(M)-RSMA(M)



SMA(M)-RSMA(M)



SMA(M)-SMA(M)



N(M)-SMA(F)

Connector	Product Number	Frequency	Impedance
SMA(F)-SMA(F)	ADP-SMAFSSMAFS0L02	DC-10 GHz	50 Ω
RSMA(F)-RSMA(F)	ADP-SMAFRSMAFR0E01	DC-10 GHz	50 Ω
SMA(F)-RSMA(F)	ADP-SMAFRSMAFS0L02	DC-10 GHz	50 Ω
SMA(F)-RSMA(M)	ADP-SMAMRSMAFS0L02	DC-10 GHz	50 Ω
RSMA(M)quick to SMA(F)	ADP-SMAMRQSMAFS0L01	DC-10 GHz	50 Ω
SMA(M)-RSMA(F)	ADP-SMAMSSMAFR0L02	DC-10 GHz	50 Ω
SMA(M)-SMA(F)	ADP-SMAMSSMAFS0L02	DC-10 GHz	50 Ω
RSMA(M)-RSMA(M)	ADP-SMAMRSMAFR0B01	DC-10 GHz	50 Ω
SMA(M)-RSMA(M)	ADP-SMAMSSMAMR0E01	DC-10 GHz	50 Ω
SMA(M)-SMA(M)	ADP-SMAMSSMAMS0L02	DC-10 GHz	50 Ω
N(M)-SMA(F)	ADP-NMSMAFR001	DC-6 GHz	50 Ω

Fix Attenuator DC to 6 GHz

Features:

- Wideband coverage, DC to 6 GHz
- 1 Watt rating
- Rugged unibody construction
- Off-the-shelf availability
- Very low cost



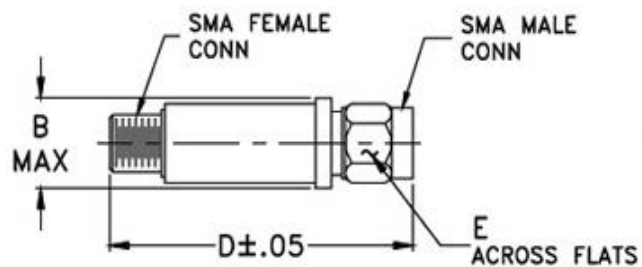
Application:

- Impedance matching
- Signal level adjustment

Specification:

Freq. Range (MHz)	Attenuation * (dB) Flatness **					V.S.W.R. (:1)					MAX. Input Power Power (W)
		DC-3GHz	3-5GHz	5-6GHz	DC-6GHz	DC-3GHz		3-5GHz		5-6GHz	
	fL--fU	Nom.	Typ.	Typ.	Typ.	Typ.	max.	Typ.	max.	Typ.	
DC-6000	0.3±1	0.20	0.20	0.20	0.60	1.05	1.20	1.10	1.40	1.40	1.0
DC-6000	0.3±2	0.20	0.20	0.25	0.65	1.05	1.20	1.20	1.50	1.50	1.0
DC-6000	0.3±3	0.20	0.15	0.15	0.45	1.05	1.20	1.15	1.40	1.40	1.0
DC-6000	0.3±5	0.10	0.10	0.10	0.25	1.05	1.20	1.15	1.40	1.40	1.0
DC-6000	0.3±6	0.15	0.10	0.20	0.45	1.05	1.20	1.15	1.40	1.50	1.0
DC-6000	0.3±10	0.10	0.20	0.15	0.35	1.05	1.20	1.20	1.60	1.60	1.0
DC-6000	0.3±20	0.45	0.75	0.35	1.00	1.05	1.20	1.20	1.50	1.30	0.5
DC-6000	0.3±30	0.70	0.30	0.20	1.30	1.05	1.20	1.15	1.30	1.25	0.5

Outline Drawing



Outline Dimensions ($\frac{\text{inch}}{\text{mm}}$)

B	D	E	wt
0.410	1.430	0.312	grams
10.41	6.32	7.92	10.00

Fix Attenuator DC to 6 GHz

Features:

- Wideband coverage, DC to 6 GHz
- 2 Watt rating
- Impedance : 50 Ω
- Rugged unibody construction
- Off-the-shelf availability
- Very low cost



Application:

- Impedance matching
- Signal level adjustment

Specification:

P/No	Frequency Range (MHz)	Attenuation* (dB) Flatness**	V.S.W.R. (max.)	MAX. Input Power (W)
ATT-FSMA001ST01	DC-6000	01±0.5	1.3	2.0
ATT-FSMA002ST01	DC-6000	02±0.5	1.3	2.0
ATT-FSMA003ST01	DC-6000	03±0.5	1.3	2.0
ATT-FSMA005ST01	DC-6000	05±0.5	1.3	2.0
ATT-FSMA006ST01	DC-6000	06±0.5	1.3	2.0
ATT-FSMA010ST01	DC-6000	10±0.5	1.3	2.0
ATT-FSMA020ST01	DC-6000	20±0.5	1.3	2.0
ATT-FSMA030ST01	DC-6000	30±0.5	1.3	2.0

Fix Attenuator DC to 18 GHz

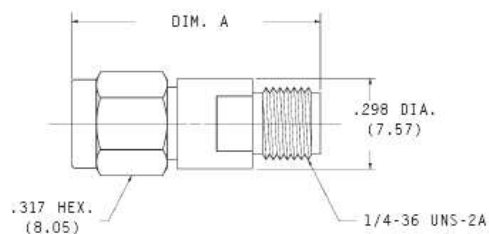
Features:

- Wideband coverage, DC to 18 GHz
- 2 Watt rating
- Impedance : 50 Ω
- Rugged unibody construction
- Off-the-shelf availability
- Very low cost



Application:

- Impedance matching
- Signal level adjustment



Specification:

P/No	Frequency Range (GHz)	Attenuation (dB) Nom.	V.S.W.R. (max.)		
			DC-4 GHz	4 -12.4 GHz	12.4 -18 GHz
ATT-FSMA003S001	DC-18	3 $\pm$ 0.3	1.15:1	1.25:1	1.50:1
ATT-FSMA006S001	DC-18	6 $\pm$ 0.3	1.15:1	1.25:1	1.50:1
ATT-FSMA010S001	DC-18	10 $\pm$ 0.5	1.15:1	1.25:1	1.50:1
ATT-FSMA020S001	DC-18	20 $\pm$ 0.7	1.15:1	1.25:1	1.50:1

Coaxial Cable Assembly



Cables on the picture (from left to right) :

- | | | |
|----------|-----------|-----------|
| 1. SS402 | 2. SS405 | 3. 1.13 |
| 4. RG178 | 5. RG316 | 6. RG142 |
| 7. RG400 | 8. CFD200 | 9. CFD400 |

Reprocess Method : 1. Crimp 2. Molding 3. Heat-shrinkable

Length :

- | | | |
|--------------------------------|----------|-----------|
| 1. 30 cm | 2. 60 cm | 3. 100 cm |
| 4. Customized length available | | |

Specification:

Cable	Connector								
	SMA	N	BNC	TNC	SMB	MCX	MMCX	F	I-PEX
SS402 (0.141)	•	•	• (4G)						
SS405 (0.085)	•	•							
1.13						•	•		•
RG178						•	•		•
RG316	•	•	•	•	•	•	•	•	
RG142	•	•	•	•	•	•		•	
RG400	•	•	•	•	•	•		•	
RG179	•	•	•	•	•	•	•	•	
RG223	•	•	•	•	•	•		•	
CFD200	•	•	•	•	•	•		•	
CFD400	•	•	•	•				•	
CFD500		•							
CFD600		•							

Coaxial Cable Assembly

Physical Characteristics	1.13	SS402	RG178	SS405	RG316	RG142
Center-conductor diameter	0.24 mm	.037"	0.012" (7/0.004")	.0201"	0.0201" (7/0.0067")	0.037"
Dielectric diameter	0.68±0.05 mm	.117"	0.033"	.064"	0.060"	0.116"
Inner shield diameter	0.93 mm	.128"	*	.071"	*	*
Outer shield diameter	*	.141"	*	.086"	*	*
Overall diameter	1.13 mm +0.1-0.06	.163"	0.071"	.104"	0.098"	0.195"
Weight (lbs./MFT)	*	32	6.3	14	12.2	43.0
Operating temperature range(°C)	-55 +200	-55 +200	-55 +200	-55 +200	-55 +200	-55 +200
Minimum recommended bend radius	*	0.8"	0.4"	0.5"	0.5"	1.0"

Electrical Characteristics	1.13	SS402	RG178	SS405	RG316	RG142
Impedance (Ohms)	50	50	50	50	50	50
Capacitance (pf/ft)	Nom.98 (pf/m)	29.4	29.4	29.4	29.4	29.4
Velocity-of propagation (%)	*	69.4	1000 (max. Operating Voltage-RMS)	69.4	1200 (max. Operating Voltage-RMS)	1900 (max. Operating Voltage-RMS)

Maximum attenuation (db/100.ft.)	1.13	SS402	RG178	SS405	RG316	RG142
400 MHz	*	8.0	33.0	14.0	21.0	11.7
1 GHz	61.0	13.0	52.0	23.0	38.0	19.0
3 GHz	109.83	23.0	94.0	39.0	58.0	35.0
5 GHz	143.38	30.0	*	52.0	*	48.0
10 GHz	158.64 (6 GHz)	45.0	*	80.0	*	*
18 GHz	*	64.0	*	110.0	*	*

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Coaxial Cable Assembly

Physical Characteristics	RG400	RG179	RG223	CFD200	CFD400	CFD500/CFD600
Center-conductor diameter	0.0384" (19/0.008")	0.0120" (7/0.004")	0.90±0.01 mm	1.12 mm	2.74 mm	3.61/4.90 mm
Dielectric diameter	0.116	0.063"	2.95±0.05 mm	2.95 mm	7.24 mm	9.41/12.5 mm
Inner shield diameter	*	*	*	3.07 mm	7.35 mm	9.58/*
Outer shield diameter	*	*	*	3.66 mm	8.1 mm	10.2/14.0 mm
Overall diameter	0.195"	0.100"	5.4±0.1 mm	5.0 mm	10.3 mm	16.0 mm
Weight (lbs./MFT)	50.0	10.8	*	0.04 kg/m	0.103 kg/m-PE 0.120 kg/m-PVC	0.13 kg/m / 0.22 kg/m
Operating temperature range(°C)	-55 +200	-55 +200	-15 to +55 (-40 to +85)	-20 +60	-40 +85	-40 to +85 /-40 to +80
Minimum recommended bend radius	1.0"	0.4"	27 mm	12.7 mm	25.4 mm	31.8/125 mm

Electrical Characteristics	RG400	RG179	RG223	CFD200	CFD400	CFD500/CFD600
Impedance (Ohms)	50	75	50	50	50	50/50
Capacitance (pf/ft)	29.4	19.4	100 pf/m	80.4 pf/m	76.0 pf/m	77/75 pf/m
Velocity-of propagation (%)	1900 (max. Operating Voltage-RMS)	1200 (max. Operating Voltage-RMS)	66%	85%	85%	86%/88%

Maximum attenuation (db/100.ft.)	RG400	RG179	RG223 (db/100m)	CFD200 (db/100m)	CFD400 (db/100m)	CFD500/CFD600 (db/100m)
400 MHz	10.5	21.0	28.4	22.8 (0.45G)	8.9 (0.45G)	7.1/5.0 (0.45G)
1 GHz	17.0	*	45.9	32.6 (0.9G)	12.8 (0.9G)	10.3/7.3 (0.9G)
3 GHz	38.0	*	83.1	55.4 (2.5G)	22.2 (2.5G)	18(2.5G)/ 12.5(2.4G)
5 GHz	50.0	*	112.7	86.5 (5.8G)	35.5 (5.8G)	29.1(5.8G)/ 14.5(3G)
10 GHz	78.0	*	*	*	*	*
18 GHz	*	*	*	*	*	*

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Card Bus Adapter



Card Bus to Mini PCI



Card Bus to Card Bus



Card Bus to PCI



PCIe to PCIe Extend Card

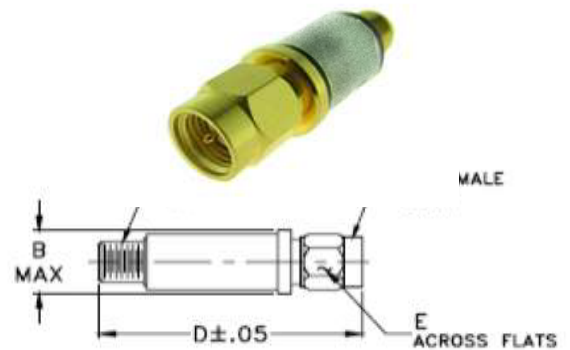


PCIe to Mini Card

SMA (M)-SMA (F) 50 Ω DC Block

Features:

- Frequency Range : 0.1 - 8 GHz
- Impedance : 50 Ω
- Broadband performance
- Low insertion loss
- Rugged unibody construction
- Off-the-shelf availability



Outline Dimensions (inch mm)

B	D	E	wt
.410	1.18	.312	grams
10.41	29.97	7.92	7.0

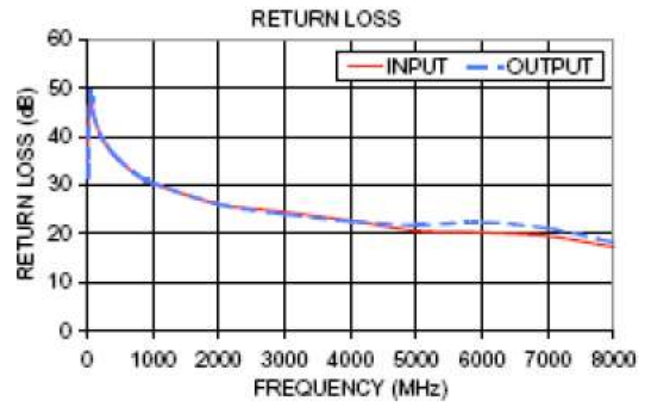
Application:

- Test and measurement instrumentation
- Communication systems
- Defense systems

Specification :

Electrical Specifications at 25° C				
FREQUENCY (GHz)	Insertion Loss (dB)		Return Loss (dB)	
	Typ	max.	Typ	max.
0.0001-0.1	0.010	0.09	40	20
0.01-1.0	0.10	0.3	38	25
1.0-4.0	0.15	0.8	24	18
4.0-8.0	0.5	0.9	20	13

Test Report:



SMA (M) - SMA (F) 50 Ω DC Block

Features:

- Frequency Range : 0.1 - 18 GHz
- Impedance : 50 Ω
- Broadband performance
- Low insertion loss
- Rugged unibody construction
- Off-the-shelf availability



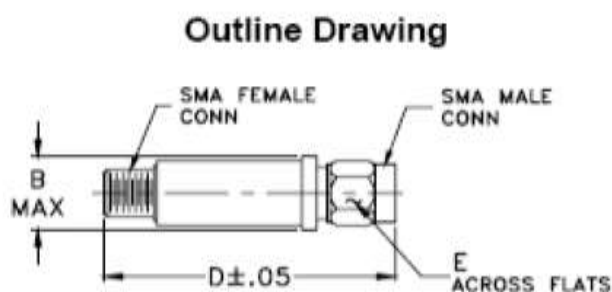
Application:

- Test and measurement instrumentation
- Communication systems
- Defense systems

Specification:

Electrical Specifications at 25° C				
FREQUENCY (GHz)	Insertion Loss (dB)		Return Loss (dB)	
	Typ	max.	Typ	max.
0.01-0.1	0.02	0.2	26	20
0.1-1.0	0.07	0.3	36	20
1.0-4.0	0.15	0.5	24	20
4.0-8.0	0.38	1.0	18	15
8.0-18.0	1.00	--	12	--

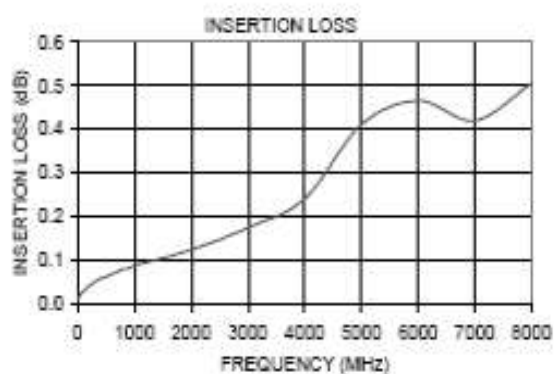
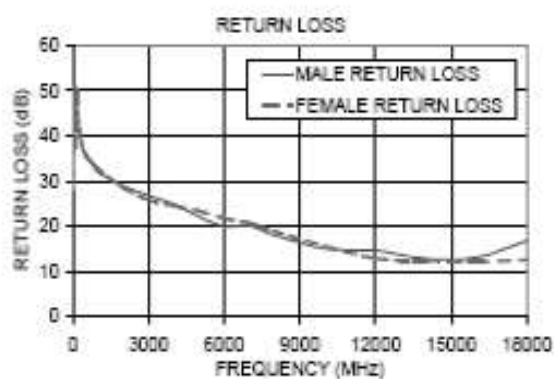
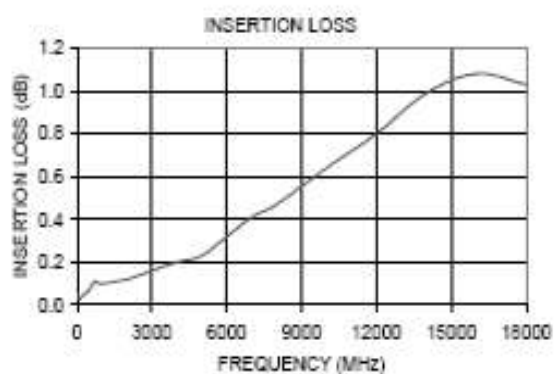
Outline Drawing :



Outline Dimensions (inch mm)

B	D	E	wt
.410	1.18	.312	grams
10.41	29.97	7.92	7.0

Test Report :



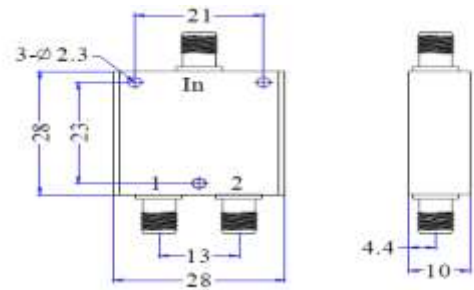
Power Divider 2 way

Features:

- Flat Frequency Response.
- Frequency Range : 0.5-18 GHz
Multi-Octave Bandwidths.
- Temperature Range : -54 °C to +125 °C Meets
MIL-E-5400 Environments
- 2 Watt rating

Application:

- Test equipments
- Broadband assemblies
- For system building



Specification:

P/No	Frequency Range	I.L (dB) max.	Input V.S.W.R. max.	Output V.S.W.R. max.	Isolation (dB) min.	Power (W)		Amplitude Unbalance max.	Phase Unbalance max.
						Forward	Reverse		
Two Way Broadband Power Divider									
DIV-SMA02T009	1-8 GHz	1.2 dB	1.35	1.39	18	20	3	0.3 dB	6
DIV-SMA02T004	2-18 GHz	1.2 dB	1.50	1.50	16	20	3	0.4 dB	5
DIV-SMA02T010	0.5-2.4 GHz	0.4 dB	1.25	1.20	22	20	3	0.3 dB	2
DIV-SMA02T008	0.8-2.4 GHz	0.4 dB	1.30	1.20	22	20	3	0.2 dB	2
DIV-SMA02T005	1-4 GHz	0.4 dB	1.25	1.20	20	20	2	0.3 dB	2
DIV-SMA02T001	2-8 GHz	0.6 dB	1.25	1.20	18	20	3	0.3 dB	3
DIV-SMA02T011	4-18 GHz	0.8 dB	1.50	1.5	18	10	2	0.4 dB	5
DIV-SMA02T003	1-2 GHz	0.3 dB	1.20	1.15	22	20	3	0.2 dB	2
DIV-SMA02T012	2-4 GHz	0.3 dB	1.25	1.20	22	20	3	0.2 dB	2
DIV-SMA02T013	4-8 GHz	0.45 dB	1.25	1.20	20	20	3	0.2 dB	3
DIV-SMA02T014	6-18 GHz	0.7 dB	1.50	1.50	18	10	2	0.4 dB	5

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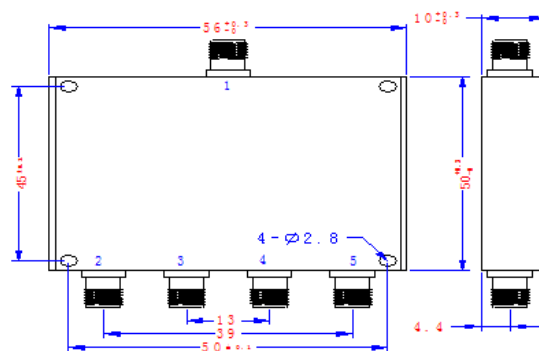
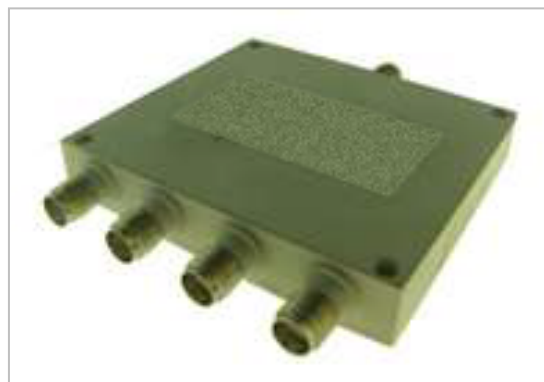
Power Divider 4 way

Features:

- Flat Frequency Response.
- Frequency Range : 0.5-18 GHz
Multi-Octave Bandwidths.
- Temperature Range : -54 °C to +125 °C Meets
MIL-E-5400 Environments
- 2 Watt rating

Application:

- Test equipments
- Broadband assemblies
- For system building



Specification:

P/No	Frequency Range	I.L (dB) max.	Input V.S.W.R. max.	Output V.S.W.R. max.	Isolation (dB) min.	Power (W)		Amplitude Unbalance max.	Phase Unbalance max.
						Forward	Reverse		
Four Way Broadband Power Divider									
DIV-SMA04T005	1-8 GHz	2.0 dB	1.50	1.40	15	20	3	0.4 dB	10
DIV-SMA04T003	2-18 GHz	2.2 dB	1.65	1.60	15	20	2	0.6 dB	10
DIV-SMA04T006	0.5-2 GHz	0.8 dB	1.25	1.20	20	20	3	0.3 dB	6
DIV-SMA04T007	0.8-2.4 GHz	0.7 dB	1.25	1.20	20	20	3	0.3 dB	6
DIV-SMA04T002	1-4 GHz	0.7 dB	1.25	1.20	20	20	3	0.3 dB	4
DIV-SMA04T001	2-8 GHz	1.0 dB	1.30	1.25	18	20	3	0.3 dB	8
DIV-SMA04T008	4-18 GHz	1.6 dB	1.60	1.50	18	10	2	0.5 dB	8
DIV-SMA04T009	1-2 GHz	0.4 dB	1.20	1.20	22	20	3	0.3 dB	3
DIV-SMA04T010	2-4 GHz	0.4 dB	1.25	1.20	22	20	3	0.3 dB	3
DIV-SMA04T011	4-8 GHz	0.6 dB	1.30	1.25	18	20	3	0.3 dB	3
DIV-SMA04T012	6-18 GHz	1.3 dB	1.60	1.60	18	20	2	0.5 dB	8

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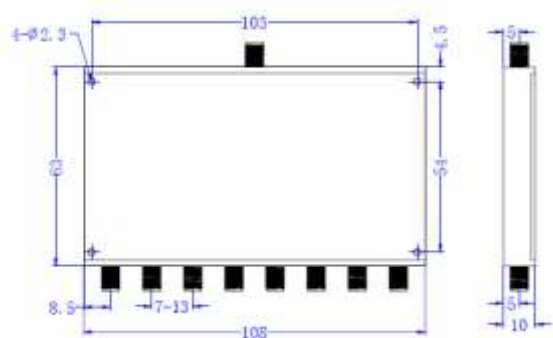
Power Divider 8 way

Features:

- Flat Frequency Response.
- Frequency Range : 0.5-18 GHz
Multi-Octave Bandwidths.
- Temperature Range : -54 °C to +125 °C Meets
MIL-E-5400 Environments
- 2 Watt rating

Application:

- Test equipments
- Broadband assemblies
- For system building



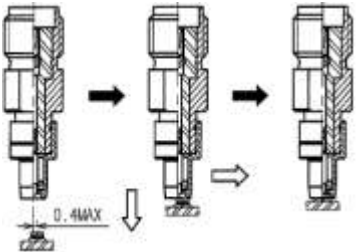
Specification:

P/No	Frequency Range	I.L (dB) max.	Input V.S.W.R. max.	Output V.S.W.R. max.	Isolation (dB) min.	Power (W)		Amplitude Unbalance max.	Phase Unbalance max.
						Forward	Reverse		
Eight Way Broadband Power Divider									
DIV-SMA08T004	0.5-2 GHz	1.4 dB	1.40	1.25	20	20	3	0.5 dB	12
DIV-SMA08T003	0.8-2.4 GHz	1.0 dB	1.40	1.25	20	20	3	0.5 dB	8
DIV-SMA08T001	1-4 GHz	1.2 dB	1.35	1.30	20	20	3	0.5 dB	10
DIV-SMA08T002	2-8 GHz	1.6 dB	1.70	1.60	18	20	3	0.5 dB	12
DIV-SMA08T005	4-18 GHz	1.2 dB	1.70	1.60	18	10	2	0.8 dB	12
DIV-SMA08T006	1-2 GHz	0.8 dB	1.25	1.20	20	20	3	0.4 dB	5
DIV-SMA08T007	2-4 GHz	0.8 dB	1.25	1.20	20	20	3	0.4 dB	5
DIV-SMA08T008	4-8 GHz	1.4 dB	1.50	1.25	18	20	2	0.6 dB	10
DIV-SMA08T009	6-18 GHz	2.2 dB	1.80	1.80	18	10	2	0.6 dB	12

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Probe

	HRMJ-W.FLP-ST1 • Lock Function • For RF connector		HRMJ-U.FLP-ST1 • U.FL side plug-SMA side jack • For RF connector
	HRMJ-W.FLP-ST3 • Lock Function • For RF connector		MM126036 • Auto measurement probe • For switch connector
	MM126314 • Auto Measurement • For switch connector		ARUM-30C • Simplified lock, Straight, short • For switch connector

Coaxial Switch

Features:

- Low Insertion Loss
- High Isolation
- Frequency Range : DC to 18 GHz

Description:

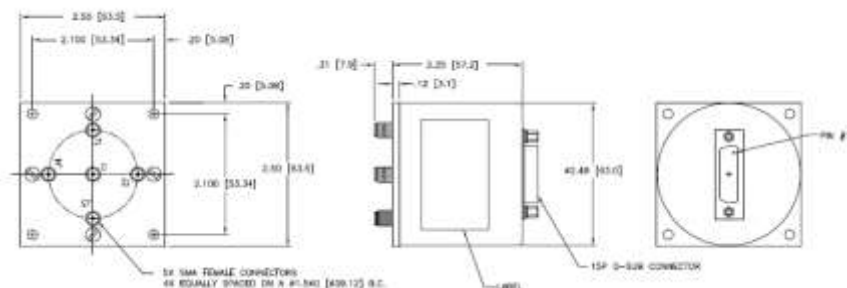
SWT Series units meet MIL-E-5400 Class 1 and feature 3, 4, 6, and 10 positions normally open, failsafe to position 1 and magnetic latching coaxial switches with break before make contacts.



Specification:

- Actuator Operating Voltage : 24 VDC
- Actuator Operating Current : 270 mA max. @ 24V and 20 °C
- Switching Time : 20 milliseconds
- Operating Temperature Range : - 25 °C to + 65 °C

	V.S.W.R. (max.)	Insertion Loss (max.)	Isolation (min.)
DC-6 GHz	1.25 : 1	0.2 dB	70 dB
6-12 GHz	1.40 : 1	0.4 dB	60 dB
12-18 GHz	1.70 : 1	0.5 dB	60 dB



Coaxial Switch

Features:

- Low Insertion Loss
- High Isolation
- Frequency Range : DC to 18 GHz

Description:

SWT Series units meet MIL-E-5400 Class 1 and 2 different polarized pins are used to switch signal transmittance paths.



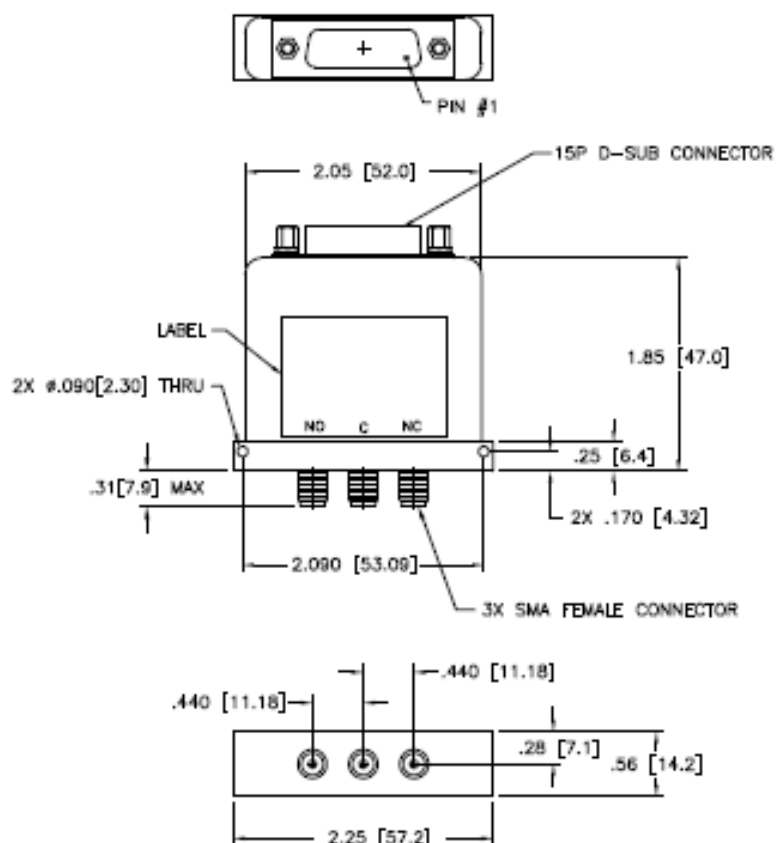
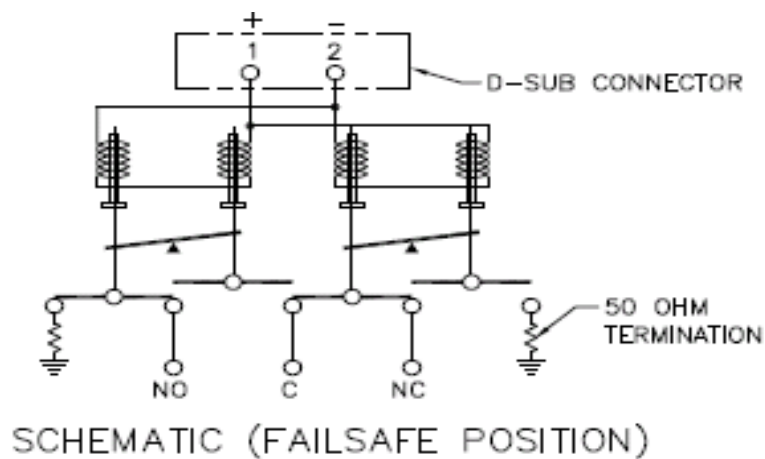
Specification:

- Actuator Operating Voltage : 24 VDC
- Actuator Operating Current : 180 mA max. @ 24V and 20 °C
- Switching Time : 20 milliseconds
- Operating Temperature Range : - 25 °C to + 65 °C

	V.S.W.R. (max.)	Insertion Loss (max.)	Isolation (min.)
DC-6 GHz	1.25 : 1	0.2 dB	70 dB
6-12 GHz	1.40 : 1	0.4 dB	60 dB
12-18 GHz	1.50 : 1	0.5 dB	60 dB

Coaxial Switch

Outline Drawing:



N (M) Terminator N Type

Features:

- TER-N00M5018S01
- N Type
- Frequency Range : DC - 6 GHz
- Impedance : 50 Ω
- Power Rating : 1 W



SMA (M) Terminator SMA Type

Features:

- TER-SMAM5018T001
- SMA Type
- Frequency Range : DC - 18 GHz
- Impedance : 50 Ω
- Power Rating : 1 W



F (M) Terminator F Type

Features:

- TER-F00M75300E01
- F Type
- Frequency Range : DC - 2 GHz
- Impedance : 75 Ω
- Power Rating : 0.5 W



Tools – Torque Wrench

Features:



P/N:WRENCH-08100155T01

Data Sheet	
Dimensions	155 mm x Φ 1 5mm
Opening Diameter (mm)	Φ 8.2 $\pm$ 0.1
Torque Accuracy(N*m)	1 $\pm$ 0.1
Weight	0.2 kg
Handle Color	Pink Color

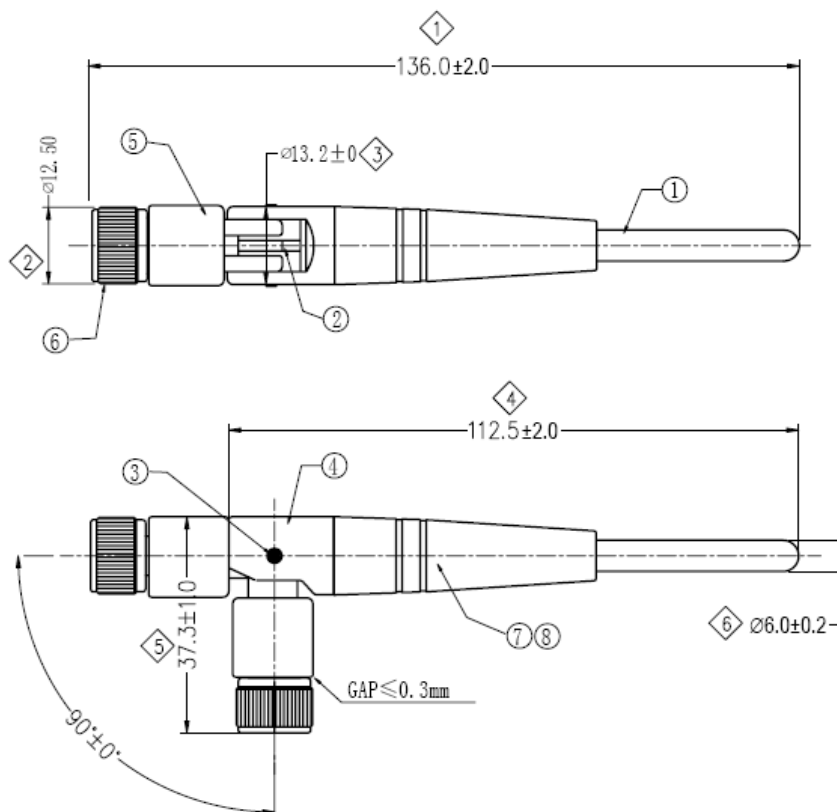
Antenna 2.40 / 5.80GHz

Specification:

- Frequency Range : 2.40-2.50 GHz / 4.90-5.85 GHz
- V.S.W.R. ≤ 2.5
- Peak gain : 3.0 dB
- Impedance : 50 Ω
- Polarization : Vertical
- Operating temperature range : - 30 °C to + 70 °C



Outline Drawing:



RF Shielding Room

- International Standard Conformance

All types of chambers are conformed with ANSI, MIL, IEC & EN.

- Calibration & Acceptance Service

Equip-test is able to provide calibration, maintenance, and quality assurance service.

- Flexible Chamber Sizes

Chamber sizes are all customized upon further requests.

- Qualified Construction Ability.

Strength1. Experienced & Well-Trained construction team.

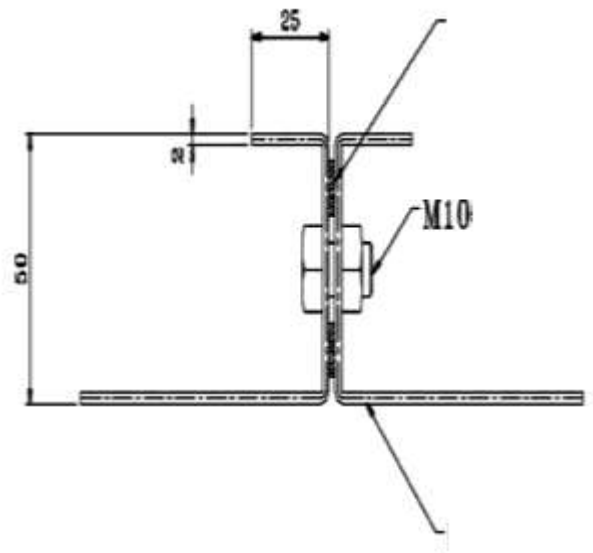
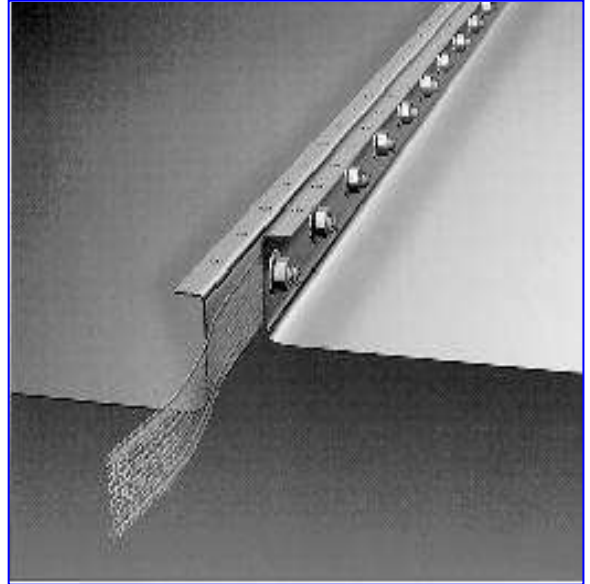
Strength2. Professional Manufacture Ability.

Strength3. Closed and tight cooperation with reputable absorber suppliers.



RF Shielding Room Structure

- Standard size isolation modules, designed To meet frequencies between 10MHZ to 18GHZ.
- 2 mm Galvanized steel structures, with 20 um Plating thickness on each steel, to ensure the steel not being affected by environment or temperature.
- Depth of each piece of steel is 50 mm. In order to ensure isolation, there is a connection point every 100 mm to connect the steel plates.
- Steel plates are connected with metal braid connection. Regulated with M10 screws to ensure the screws do not slip.
- Shielding chamber's main body structural support, can be assisted by standard steel when necessary.



Shielding Room Specifications

Outer Size Measurement (WXDXH)	MIN: 1800 X 1800 X 1800 mm MAX: 2400 X 2400 X 2400 mm	Shielding Door Size Measurement (WXH)	1000 X 2000 mm
Inner Size Measurement (WXDXH)	MIN: 1700 X 1700 X 1670 mm MAX: 2300 X 2300 X 2270 mm	Switch Modes	Manual/Pneumatic/Electric
Main Materials	Galvanized Steel	Power Supply	30 A
Surface Treatments	Ivory White	Vents Size Measurement (LXWXH)	300 X 300 X 50 mm
Shielding Effectiveness	>100 dB	Inner Lighting	Non-Interference Luminaries
Signal Panel	SMA/BNC/N/Waveguide	Inner Power Cord Distribution	According to electrical regulation

Shielding Doors

Shielding doors are generally located by the side of walls. They are constructed with metal frame which connects door leaf & spring to ensure its shielding effectiveness. The mechanical connection is consisted of the spring connectors on the door frame and the single/double knives door structures. Surface on the doors and its switch handles are all subjected to high temperature paint treatment. Easy to maintain and residual-free of hand prints.

RF sealing components, between door and door frame are easy to repair and maintain. Finger-Shaped metal shrapnel is replaceable by manual tools.



Shielding Effectiveness: 30 MHz ~18 GHz → 100 dB

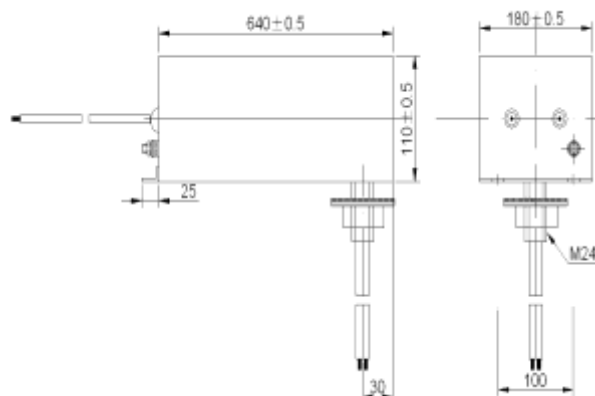
Door Size	Door Module Size	Pneumatic Control	Handle
900 x 2000 mm	1200 x 2500 mm	V	V
1000 x 2000 mm	1350 x 2500 mm	V	V
1200 x 2000 mm	1500 x 2500 mm	V	V

Shielding Room Power Filters

Power Filter is used to ensure the shielding effect of the power cord, entering & out of shielding room. All lines entering laboratory will need to be RF filtered.



Specifications	
Brand	
Spec	2-wire type 30 A
Frequency Range	30 MHz-18 GHz $\geq$ 100 dB
Standard Specification	MIL-STD-220 A
Voltage	277 VAC
Frequency	0-60Hz



Cellular Shielding Vent

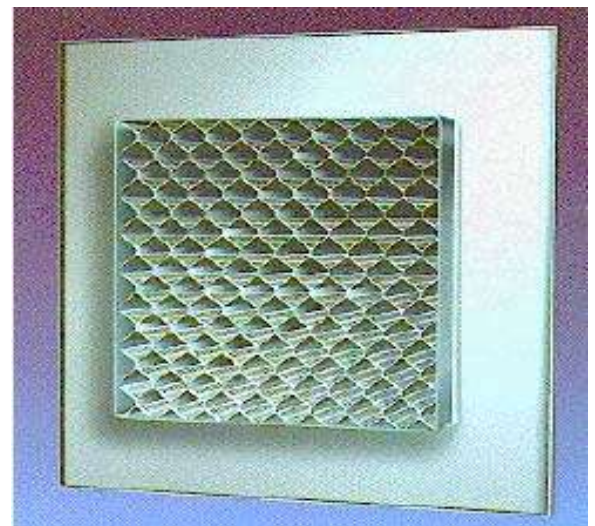
Shielding chamber environment must have good ventilation system. Such as gas can flow pass through the cellular structure vent at high speed. Internal cellular structure is composed of crimped metal waveguide matrix.

Shielding effectiveness relies mainly on the attenuation characteristics of waveguide. This mainly depends on the size, length, and quantity of the aperture of the waveguide. In order to have good ventilation in the shielding room, it is placed on top of the ceiling.

The most suitable way to connect is near the air conditioning system or to connect with air-conditioning ducts.



Specifications	
Brand	
Spec	300 x 300 mm
Diameter	4 mm
Frequency Range	30 MHz-18 GHz $\geq$ 100 dB
In-Take Air volume	Reach 80%



Alloy Steel Raised Floor

Alloy steel floor is consisted of upper & lower steel plates. After the lower plate is formed by stretching & stamping, it is spot welded to combine with the upper plate. The steel floor, with beams and foundation constitute the raised floor structure.

Specifications	
Size	600 x 600 mm
Total Weight	300 kg
Surface Material	PVC Brick



Interior Views of Finished Chamber



Power Supply



Power Slot



Air-Intake Vents

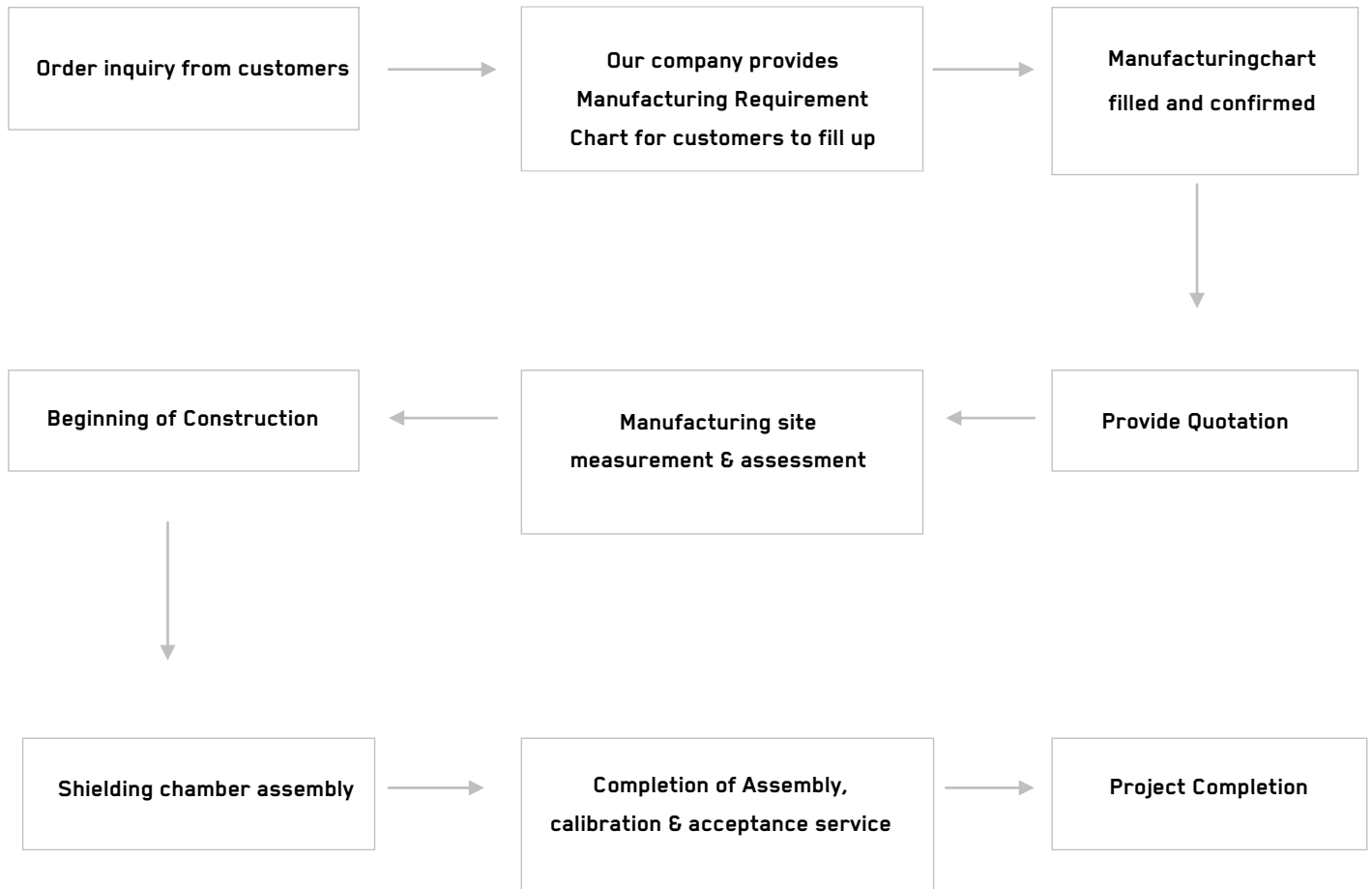


Signal Filter

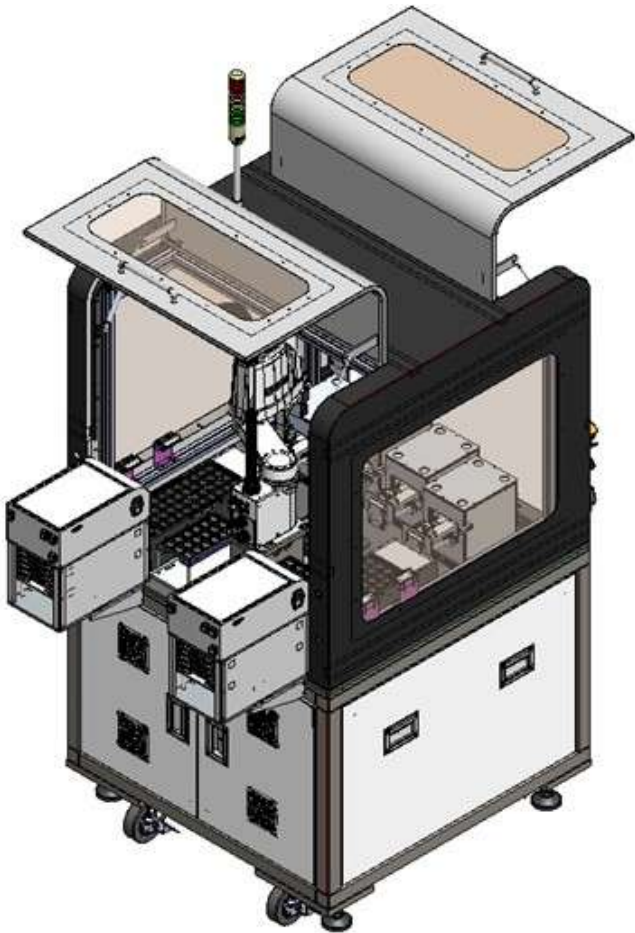
Shielding Room Manufacturing Requirement

Content	Specification Template	Requirement Confirmation
Interior Size	Customization Standard: 2 m x 2 m or 3 m x 2 m need to confirm equipment allocation & personnel moving directions.	
Exterior Size	Customization, Standard: 2 m x 2 m or 3 m x 2 m	
Thickness of Ceiling	Approximately 7-10 cm	
Thickness of Floor	Approximately 5 cm	
Thickness of Wall	Approximately 10 cm	
Luminaries	Customization, 2x2 m (2 sets); 3x2 m (4 sets)	
Ventilation Duct	Normally 2 sets, In/Out, Fans not included, duct diameter required.	
Frequency/Shielding Effectiveness	Two different specs available: 1. Shielding Effectiveness:100 dB, 30 MHz-18 GHz ° 2. Shielding Effectiveness:75 dB, 30 MHz-1 GHz °	
Material	Galvanized Steel:2mm thick(Shielding Effect 100 dB) ; 0.6 mm thick (Shielding Effect 75 dB)	
Size of Doors	Need to consider equipment size & moving line · Normally width is 140 cm.	
Absorber	Standard Spec does not include absorber · specs & quotation of the absorber are subjected to further discussion.	
Voltage	AC	
Waveguide	Qty: 1 set · Used in windpipe(Non metallic)	
Filter interfaces and Qty	USB 、RJ45 、SMA.....etc	
Specification of Filters	Cutoff Frequency, Electrical Specifications	
Lead-time and QTY	L/T at least 30 days · subject to change depend on overall size & qty	

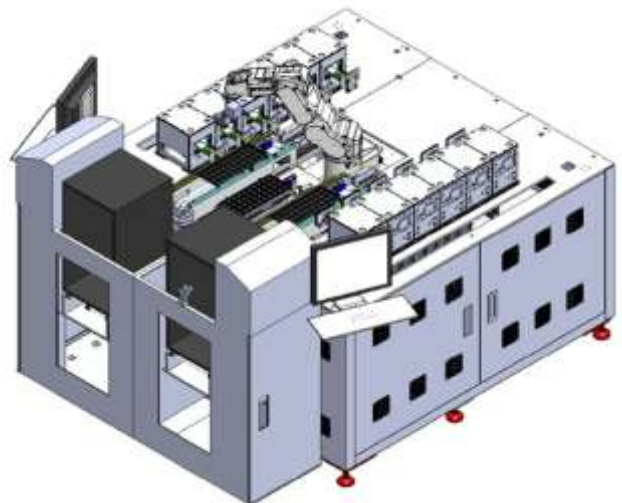
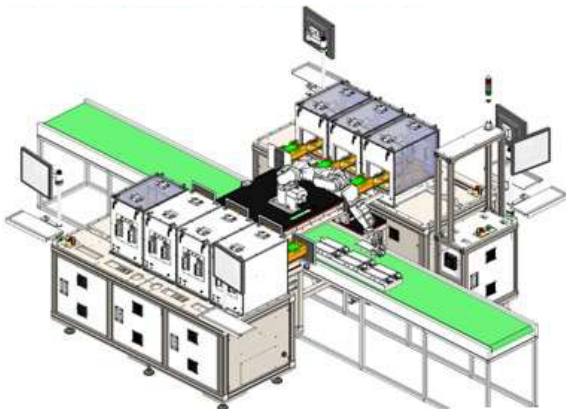
Shielding Room Order Procedures



RF Module and Device Automatic Solution



RF Test Automation Solution



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