APPROVAL SHEET
(RoHS)

CUSTOMER	:	
CUSTOMER'S PART NO.	:	
DESCRIPTION	:	**RF ANTENNA ASSEMBLY**
PART NO.	:	**EDA-1410-6G0R2-A3**
DATE	:	
AUTHORIZED BY	:	*Alvin Chen*

	FULLY APPROVED	PARTIALLY APPROVED	REJECTED
SIGN			
SUGGESTION			

美磊科技股份有限公司

MAG. LAYERS SCIENTIFIC-TECHNICS CO., LTD

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Revisions

REV.	Description	Date	Prepared by	Approved by
V01	New Release	2021/06/03	Sheng	Alvin

Contents

Antenna Specification

ELECTRICAL PROPERTIES

1.1	Frequency Range…….…...	2400-2500MHz/5150-5850MHz 5875-6275MHz/6300-6700MHz 6725-7125MHz
1.2	Impedance…….....	50 Ohm Nominal
1.3	VSWR……..……	≦2
1.4	Radiation……..…….	Omni-directional
1.5	Gain(peak)…….....	2400-2500MHz/5.65dBi 5150-5850MHz/5.94dBi 5875-6275MHz/6.42dBi 6300-6700MHz/6.87dBi 6725-7125MHz/5.42dBi
1.6	Polarization…….....	Linear Vertical
1.7	Admitted Power……..….	1W

PHYSICAL PROPERTIES

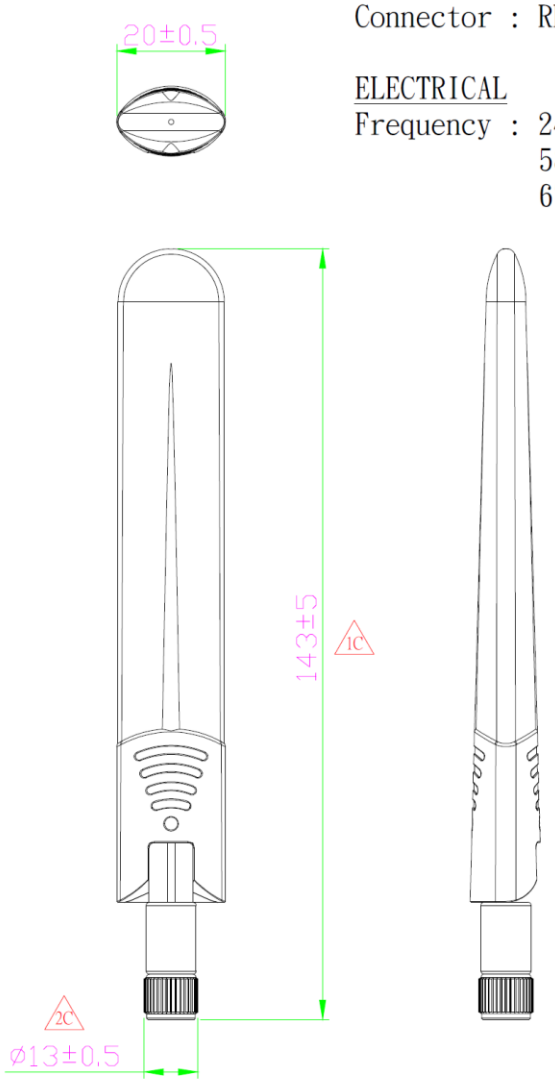
2.1	Antenna Cover……..….	ABS
2.2	Antenna Base……..….	PC+PBT
2.3	Color……..….	White
2.4	Cable……...	RG178
2.5	Connector……...….	RP SMA PLUG
2.6	Operating Temp……..….	-20℃ ~ +65℃
2.7	Storage Temp…….....	-30℃ ~ +75℃

Mechanical Specification

RoHS COMPLIANT

MECHANICAL
Antenna Cover : ABS
Antenna Base : PC+PBT
Color : White
Coaxial Cable : RG178
Connector : RP SMA PLUG（公頭母針）

ELECTRICAL
Frequency : 2400-2500MHz/5150-5850MHz
5875-6275MHz/6300-6700MHz
6725-7125MHz



LTR	DESCRIPTION	DATE	REQ. BY
A	New Release	06/03/21'	Sheng

※凡標記 C 記號者，為品管檢驗之尺寸

設計 DR.	核准 APPD.
Sheng 2021/06/03	Alvin 2021/06/03

版本說明 REVISION NOTE

容許公差	TOLERANCE
.XXX	±0.20
.XX	±0.35
.X	±0.50
X	±1.00
ANG	±5

品名 ARTICLE: EDA-1410-6G0R2-A3

MAGLAYERS

單位 UNIT	比例 SCALE	張數 SHEET	版本 REV.
mm	****	1	A

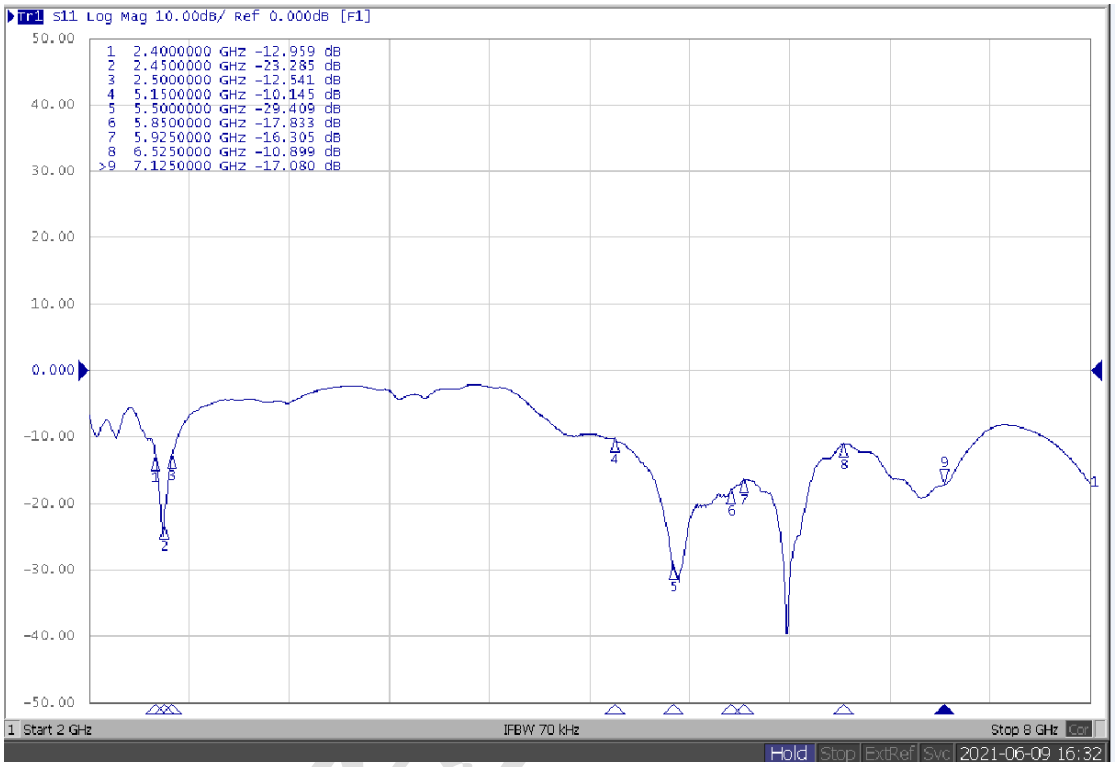
Test Report

ELECTRICAL CHARACTERISTICS

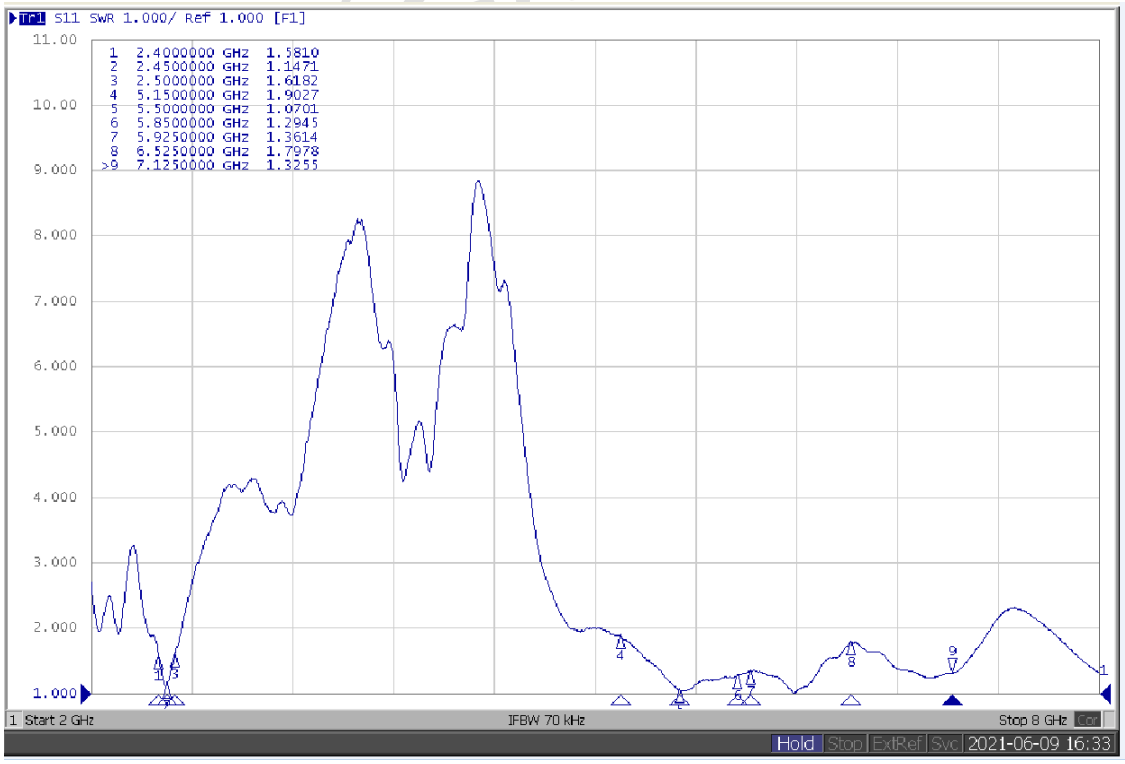
P/NO: EDA-1410-6G0R2-A3

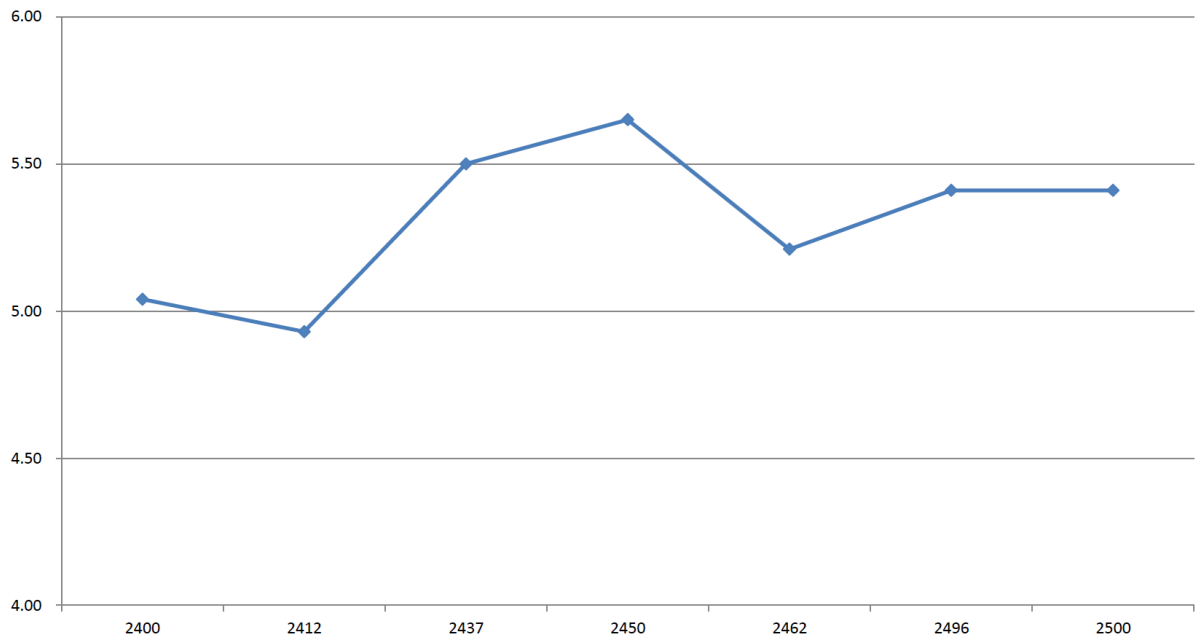
Return Loss

S11

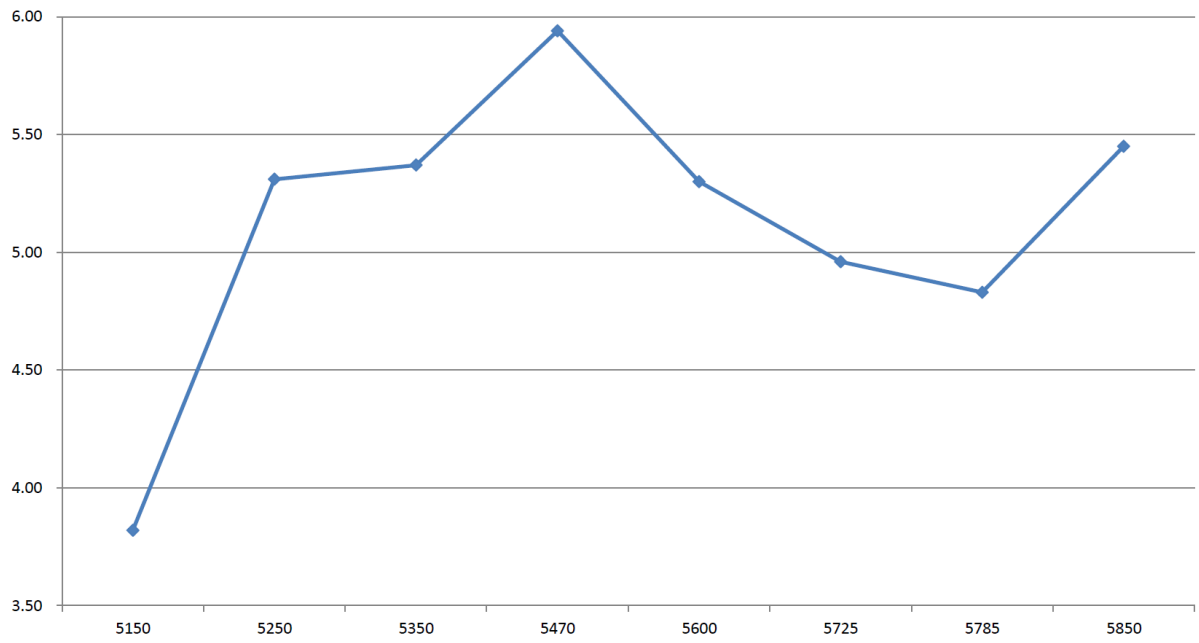


VSWR

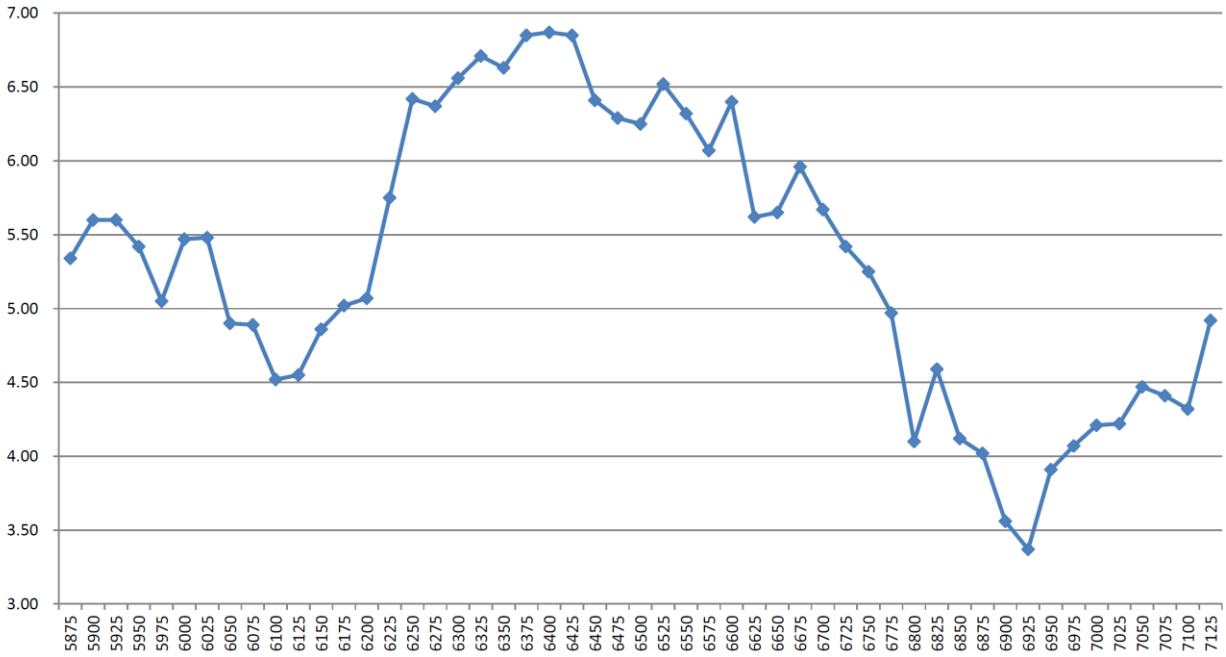




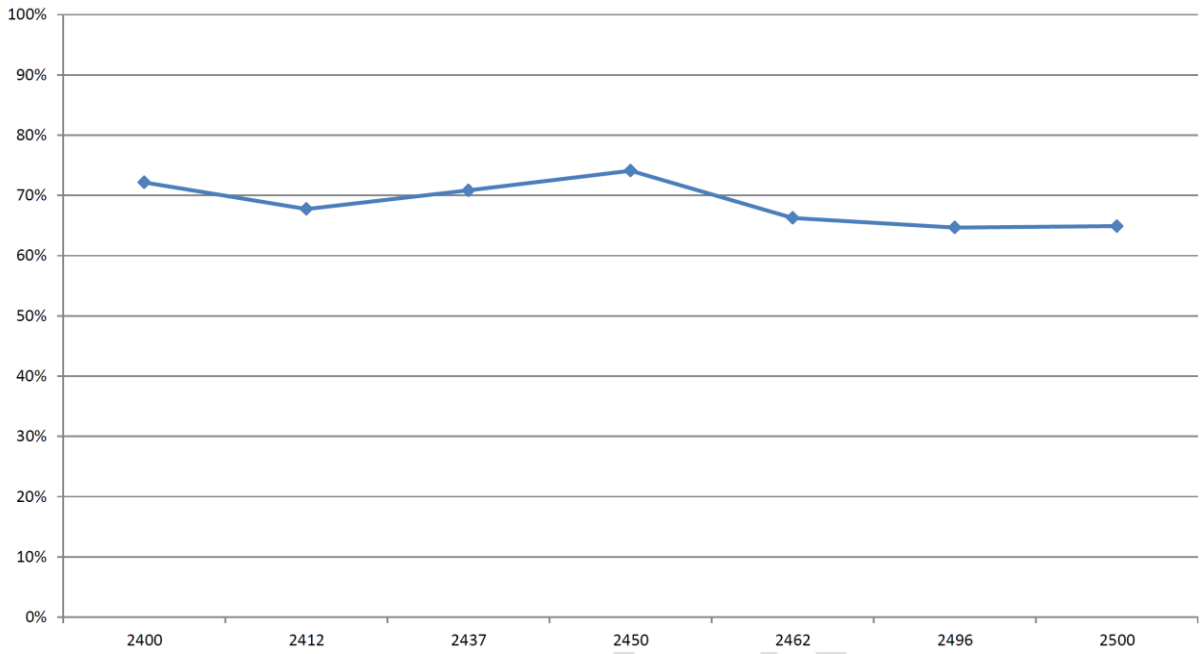
Frequency(MHz)	Peak Gain(dBi)
2400	5.04
2412	4.93
2437	5.50
2450	5.65
2462	5.21
2496	5.41
2500	5.41



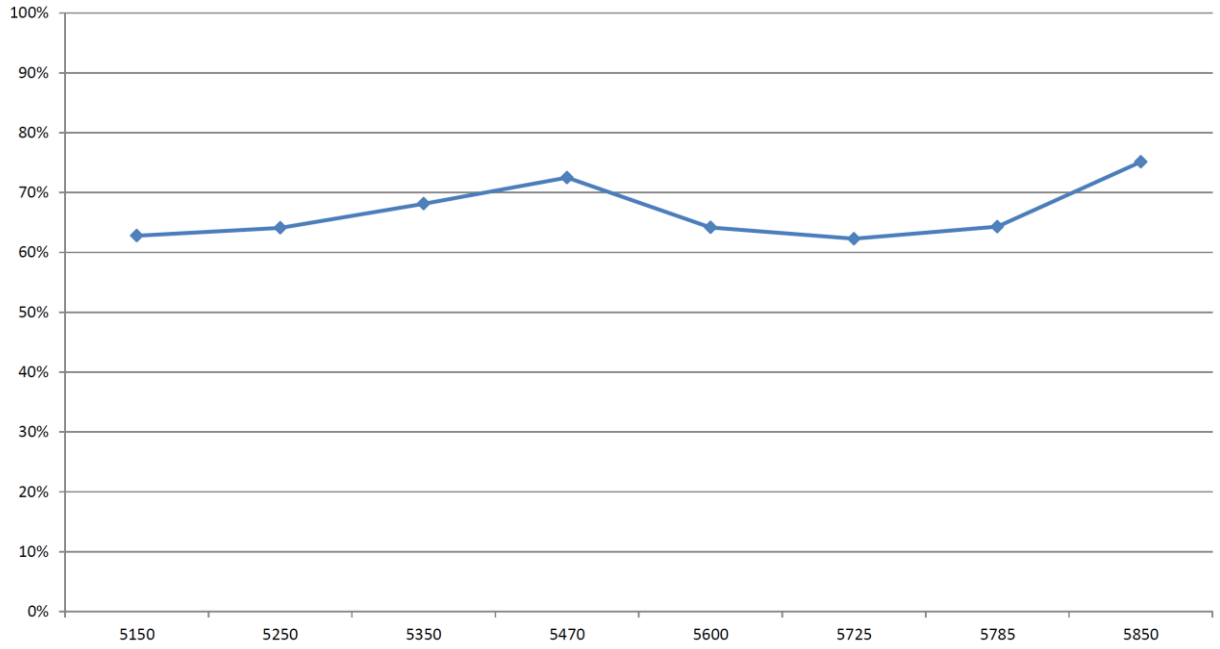
Frequency(MHz)	Peak Gain(dBi)
5150	3.82
5250	5.31
5350	5.37
5470	5.94
5600	5.30
5725	4.96
5785	4.83
5850	5.45



Frequency(MHz)	Peak Gain(dBi)	Frequency(MHz)	Peak Gain(dBi)	Frequency(MHz)	Peak Gain(dBi)
5875	5.34	6300	6.56	6725	5.42
5900	5.60	6325	6.71	6750	5.25
5925	5.60	6350	6.63	6775	4.97
5950	5.42	6375	6.85	6800	4.10
5975	5.05	6400	6.87	6825	4.59
6000	5.47	6425	6.85	6850	4.12
6025	5.48	6450	6.41	6875	4.02
6050	4.90	6475	6.29	6900	3.56
6075	4.89	6500	6.25	6925	3.37
6100	4.52	6525	6.52	6950	3.91
6125	4.55	6550	6.32	6975	4.07
6150	4.86	6575	6.07	7000	4.21
6175	5.02	6600	6.40	7025	4.22
6200	5.07	6625	5.62	7050	4.47
6225	5.75	6650	5.65	7075	4.41
6250	6.42	6675	5.96	7100	4.32
6275	6.37	6700	5.67	7125	4.92

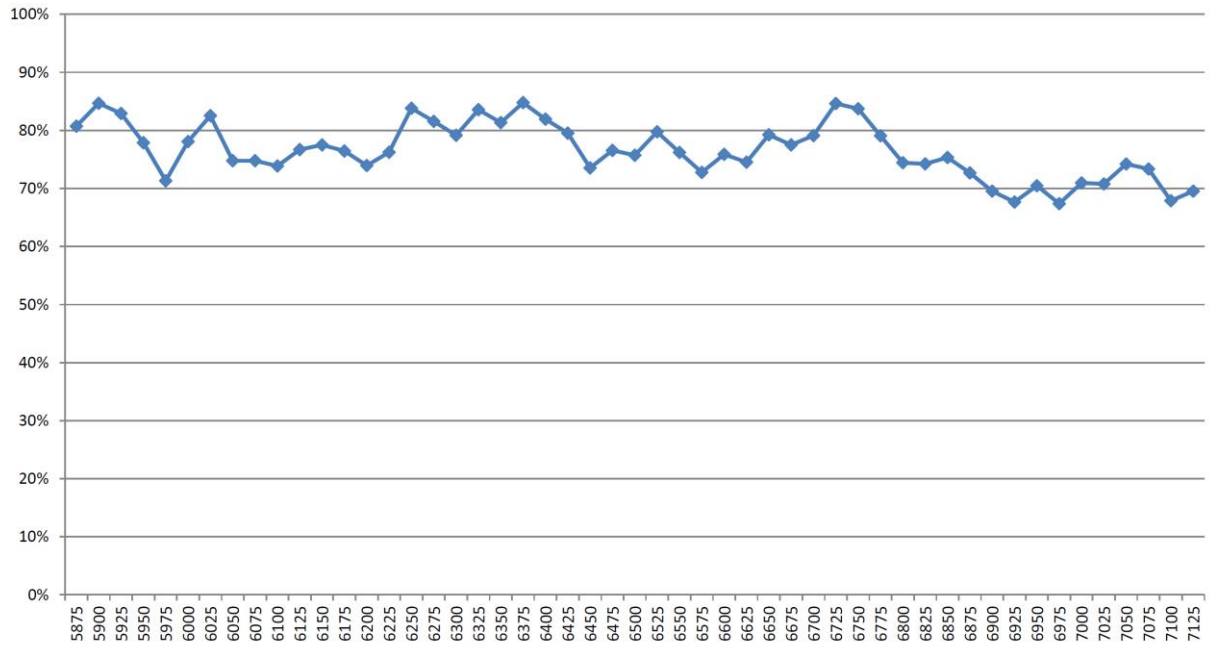


Frequency(MHz)	Efficiency
2400	72%
2412	68%
2437	71%
2450	74%
2462	66%
2496	65%
2500	65%



Frequency(MHz)	Efficiency
5150	63%
5250	64%
5350	68%
5470	73%
5600	64%
5725	62%
5785	64%
5850	75%

3D Efficiency



Frequency(MHz)	Efficiency	Frequency(MHz)	Efficiency	Frequency(MHz)	Efficiency
5875	81%	6300	79%	6725	85%
5900	85%	6325	84%	6750	84%
5925	83%	6350	81%	6775	79%
5950	78%	6375	85%	6800	74%
5975	71%	6400	82%	6825	74%
6000	78%	6425	80%	6850	75%
6025	83%	6450	74%	6875	73%
6050	75%	6475	77%	6900	70%
6075	75%	6500	76%	6925	68%
6100	74%	6525	80%	6950	70%
6125	77%	6550	76%	6975	67%
6150	78%	6575	73%	7000	71%
6175	76%	6600	76%	7025	71%
6200	74%	6625	75%	7050	74%
6225	76%	6650	79%	7075	73%
6250	84%	6675	78%	7100	68%
6275	82%	6700	79%	7125	70%

Cable UL

AVLV2.E318898
Appliance Wiring Material - Component

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Appliance Wiring Material - Component

See General Information for Appliance Wiring Material - Component

SHENYU COMMUNICATION TECHNOLOGY INC E318898
275 E Waihuan Rd
Jiangyin, Jiangsu 214400 CHINA

Table of Recognized Styles							
Single-conductor, thermoplastic insulation.							
1226	1333	1591	1723	1857	1886	10011	10362
1227	1354	1592	1726	1858	1887	10064	10518
1330	1371	1708	1727	1859	1901	10072	11149
1331	1538	1709	1766	1860	1927	10111	11180
1332	1577	1710	1847	1882	10005	10248	
Multiple-conductor, thermoplastic insulation.							
21533							

Style(s) 11149 can be assigned the IEC 60332-2 flammability rating

Marking: Company name, voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.

Last Updated on 2018-05-23

Questions? Print this page Terms of Use Page Top

Connector UL

ONLINE CERTIFICATIONS DIRECTORY

QMFZ2.E252343
Plastics - Component

Additional information regarding this certification can be found in UL's iQ Family of Databases (iq.ul.com).
NEW -- for additional information concerning the individual material, click on the material designation.

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Plastics - Component

See General Information for Plastics - Component

DAIKIN FLUOROCHEMICALS (CHINA) CO LTD E252343
CHANGSHU INTERNATIONAL
CHEMICAL INDUSTRIAL PARK
HAIYU TOWN
CHANGSHU, JIANGSU 215522 CHINA

									H	D	
		Min.		H	H	R T I			V	4	C
		Thk	Flame	W	A	Elec	Mech		T	9	T
Material Dsg	Color	mm	Class	I	I		Imp	Str	R	5	I
Polytetrafluoroethylene (PTFE), furnished as pellets.											
M-139	NC	0.81	V-0	-	-	180	180	180			
		1.40-1.54	V-0	-	-	180	180	180			
Polytetrafluoroethylene (PTFE), furnished as powder.											
F-201	NC	0.81	V-0	-	-	180	180	180			
		1.6	V-0	-	-	180	180	180			
M-18	NC	0.81	V-0	-	-	180	180	180			
		1.6	V-0	-	-	180	180	180			
M-18F	NC	0.81	V-0	-	-	180	180	180			
		1.6	V-0	-	-	180	180	180			
Polytetrafluoroethylene (PTFE).											
F-104	NC	0.81-1.8	V-0	-	-	180	180	180			
F-108	NC	0.81-1.8	V-0	-	-	180	180	180			
F-208	NC	0.81-1.8	V-0	-	-	180	180	180			
F-303	NC	0.81-1.8	V-0	-	-	180	180	180			

Marking: Company name and material designation on container, wrapper or finished part.
Last Updated on 2008-08-30

Questions? Print this page Notice of Disclaimer Page Top

iq.ul.com

Component - Plastics [guide info] **E173318**

FORMOSA PLASTICS CORP

HSIN KANG POM PLANT, 3 CHUNG YANG INDUSTRIAL PARK, HSIN KANG HSIANG, CHIA-YI 616 TW

FM025, FM090, FM090LV, FM090LMD, FM090UV, FM270

Acetal Polyoxymethylene (POM), furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.8	HB	5	0	110	90	90
	3.0	HB	3	0	110	90	100

Comparative Tracking Index (CTI): 0

Inclined Plane Tracking (IPT): -

Dielectric Strength (kV/mm): -

Volume Resistivity (10^X ohm-cm): -

High-Voltage Arc Tracking Rate (HVTR): 0

High Volt, Low Current Arc Resis (D495): 5

Dimensional Stability (%): -

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1999-01-18

Last Revised: 2016-06-20

IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.8	HB75 (ALL)
			3.0	HB40 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m^2	-	-

Housing UL

Component - Plastics
File Number: E56070

CHI MEI CORPORATION
59-1 SAN CHIA, JEN TE, TAINAN 717 TW

Polylac: PA-757(+)

Acrylonitrile Butadiene Styrene (ABS), pellets

(+) - Optional prefix or suffix; may be used to denote usage of 0-0.5 percent acid scavengers. For PC-110(+), Optional the suffix except L, N, U, V, T, and F. For Grades PC-6015(+), PB-1202(+), Maybe none or replace by one alphabet to indicate the color.

Flammability	Value	Test Method
Flame Rating		
1.50 mm, ALL	HB	UL 94
3.00 mm, ALL	HB	UL 94
3.00 mm, ALL	HB40	IEC 60695-11-10, -20
1.50 mm, ALL	HB75	IEC 60695-11-10, -20
Electrical	**Value**	**Test Method**
Hot-wire Ignition (HWI)		UL 746
1.50 mm	PLC 4	
3.00 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746
1.50 mm	PLC 0	
3.00 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 1	UL 746
Arc Resistance	PLC 7	ASTM D495
Thermal	**Value**	**Test Method**
RTI Elec		UL 746
1.50 mm	85.0 °C	
3.00 mm	85.0 °C	
RTI Imp		UL 746
1.50 mm	80.0 °C	
3.00 mm	80.0 °C	
RTI Str		UL 746
1.50 mm	85.0 °C	
3.00 mm	85.0 °C	

Form Number: E56070-565071

Report Date: 6/23/1993
Last Revised: 11/27/2007

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

QMFZ2 Component - Plastics	Wednesday, September 14, 2005	E107536

SHINKONG SYNTHETIC FIBERS CORP
223 YEN PING RD SEC 3 PIN CHENG TAOYUAN HSIEN 324 TW

Material Designation: A724

Product Description: Polybutylene Terephthalate/Polycarbonate (PBT/PC), furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
NC	0.8	HB	4	1	75	75	75	-	-
	1.6	HB	4	1	75	75	75	-	-
	3.2	HB	2	1	75	75	75	-	-

CTI: - | IEC CTI (V): - | HVTR: 2 | D495: - | IEC Ball Pressure (°C): -

Dielectric Strength (kV/mm): 38
ISO Tensile Strength (MPa): -
ISO Tensile Impact (kJ/m²): -

Volume Resistivity (10^9ohm-cm): 17
ISO Flexural Strength (MPa): -
ISO Izod Impact (kJ/m²): -

Dimensional Stability(%): -
ISO Heat Deflection (°C): -
ISO Charpy Impact (kJ/m²): -

Report Date: 4/6/1992 | Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.