

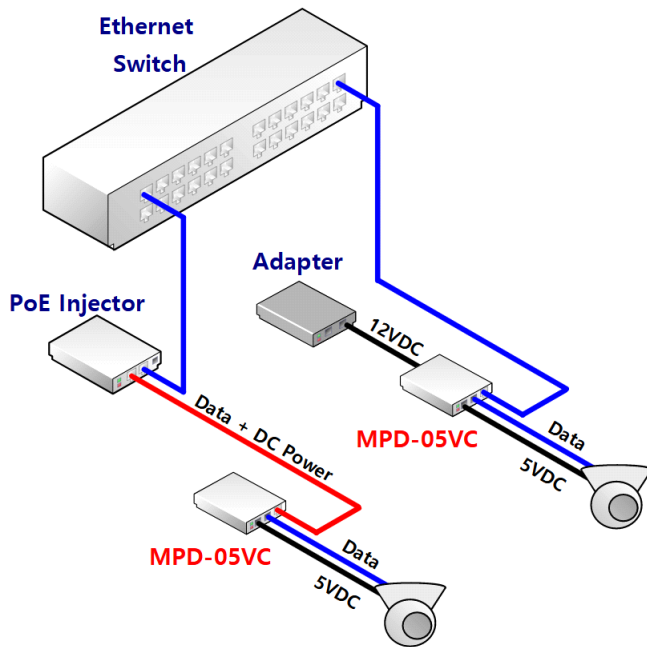
DESCRIPTION

5V, 12W max. Splitter Type PD(Powered Device) for PoE(Power over Ethernet) Application.

FEATURES

- Fully Supports IEEE802.3af Compliant
- Input Voltage Range : 38VDC to 57VDC for PoE or 12VDC to 57VDC for Adapter
- In-rush Current Limit, Over-Current, Short Circuit and Over-temperature Protection
- Default Class : 0
- High Efficiency (80% min. @ Full Load)
- Low Output Ripple and Noise
- 1500Vrms Isolation (Input-Output)
- Integrated Rectification for Superior High Voltage Protection at Input Side
- Ensuring Product Long Life by Using "No" Aluminum Electrolytic Capacitor
- RoHS Compliant

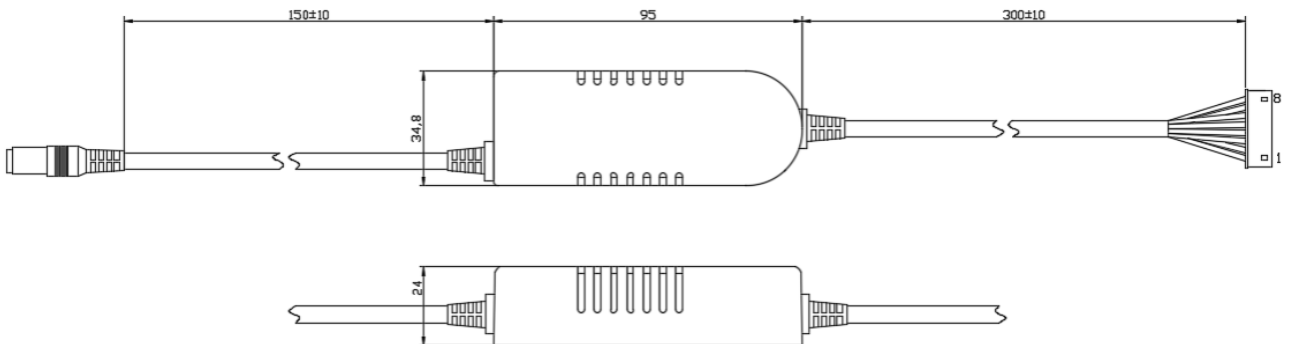
APPLICATION DIAGRAM



PRODUCT PICTURE



OUTLINE DRAWING



CONNECTOR DESCRIPTION

Type	Name	Connector Type	Description
Input	PoE	RJ-45 Jack	Connector for PoE Switch or PoE Injector - Direct or Cross UTP Cable is Available - Unshielded & LED (Indicated Power Active)
	Adapter	DC Jack	Connector for Local Adapter (12~56VDC) without PoE Switch or Injector - PIN : 2.1mm (12~56VDC) - OUTER : for 5.5mm (GND)
Output	Data	RJ-45 Plug	Connector for Data of a Ethernet Equipment - #1 : RX-, #2 : RX+, #3 : TX-, #4 : TX+
	Power	DC Plug	Connector for Power of a Ethernet Equipment - #5&6 : GND, #7&8 : 5VDC

SPECIFICATIONS

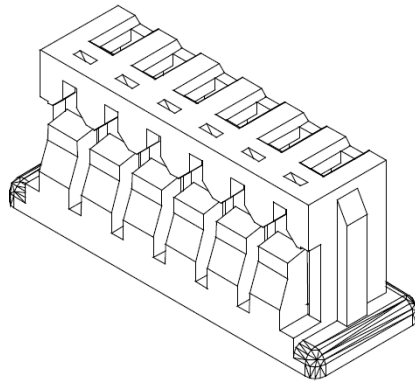
No	Item	Specification	
1	Input Voltage	PoE	38~57VDC
		Adapter	11.5~57VDC
2	Input Under Voltage Lockout (Rising) for PoE	33.9~36.1VDC	
3	Input Under Voltage Lockout (Hysteresis) for PoE	4.7VDC typ.	
4	Nominal Output Voltage	5VDC (±5%)	
5	Continuous Output Current	PoE	2.0A max.
		Adapter	1.2A max.
6	Peak Output Current	PoE	2.4A max.
		Adapter	1.3A max.
7	Line Regulation (Vin=38~57VDC, Pout=12W)	±1%	
8	Load Regulation (Vin=48VDC, Pout=0~12W)	±5%	
9	Ripple & Noise (Vin=48VDC, Pout=12W)	50mVp-p max.	
10	Efficiency (Vin=48VDC, Pout=12W)	80% min.	
11	Input to Output Isolation	1500 Vrms (10mA Cut-off, 60Hz)	
12	Short Circuit Protection Duration	Inf.	
13	Data Rate	10/100 Mbps	
14	Operating Temperature	-20 ~ 50 °C	
15	Storage Temperature	-40 ~ 80 °C	
16	Typical Dimension (W×D×H)	35×24×95 (mm)	

ADDITIONAL INFORMATION #1 : USED CONNECTOR

1.25mm (0.049") PITCH CONNECTOR

Wire-to-Board
Housing

12505HS Series

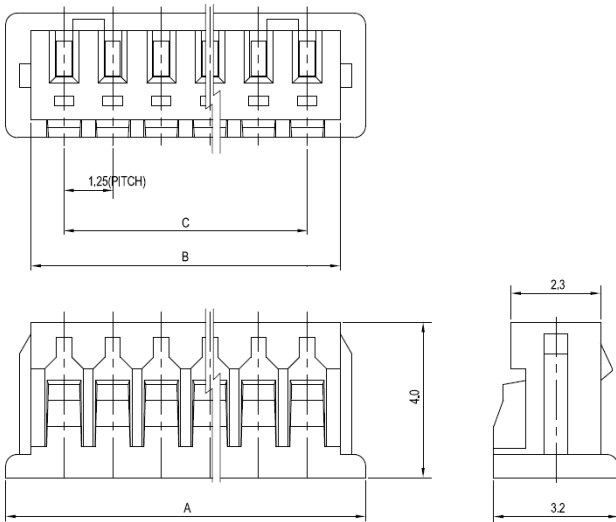


Material

I/NO	DESCRIPTION	TITLE	MATERIAL
1	HOUSING	12505HS	PA66, UL 94V Grade

Available Pin

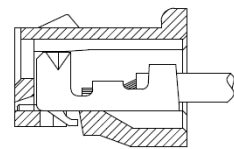
PARTS NO.	A	B	C
12505HS-02000	4.25	2.95	1.25
12505HS-03000	5.50	4.20	2.50
12505HS-04000	6.75	5.45	3.75
12505HS-05000	8.00	6.70	5.00
12505HS-06000	9.25	7.95	6.25
12505HS-07000	10.50	9.20	7.50
12505HS-08000	11.75	10.45	8.75
12505HS-09000	13.00	11.70	10.00
12505HS-10000	14.25	12.95	11.25
12505HS-11000	15.50	14.20	12.50
12505HS-12000	16.75	15.45	13.75
12505HS-13000	18.00	16.70	15.00
12505HS-14000	19.25	17.95	16.25
12505HS-15000	20.50	19.20	17.50



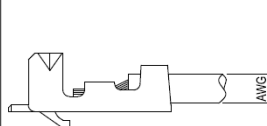
Specification

ITEM	SPEC
Voltage Rating	AC/DC 125V
Current Rating	AC/DC 1A
Operating Temperature	-25°C~+85°C
Contact Resistance	30mΩ MAX
Withstanding Voltage	AC250V/1min
Insulation Resistance	100MΩ MIN
Applicable Wire	AWG #28~#32
Applicable P.C.B	-
Applicable FPC/FFC	-
Solder Height	-
Crimp Tensile Strength	-
UL FILE NO	E108706

Application Terminal : 12505TS (32 Page)



TERMINAL ASSEMBLY DRAWING





AWG : #28 ~ #32

ADDITIONAL INFORMATION #2 : MATCHED CONNECTOR

1.25mm

(0.049") PITCH CONNECTOR

**Wire-to-Board
Wafer**

12505WS Series

SMT

Straight

Material

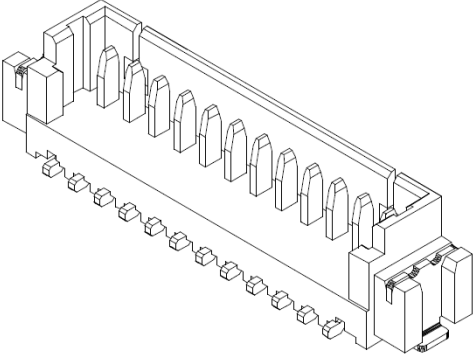
I/NO	DESCRIPTION	TITLE	MATERIAL
1	WAFER	12505WS	PA6T or PA46, UL 94V Grade
2	PIN	12505PS	Phosphor Bronze & Tin Plated
3	HOOK	12505LS	Brass & Tin Plated

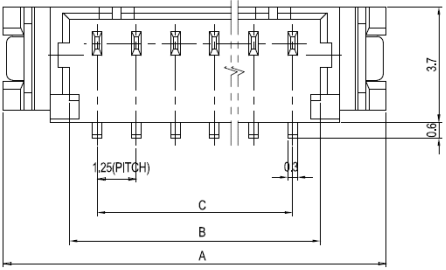
Available Pin

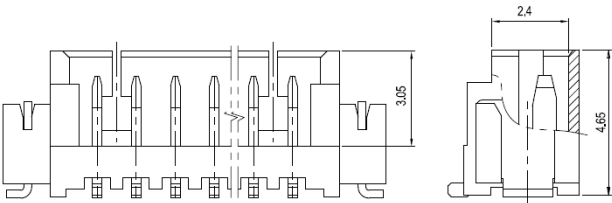
PARTS NO.	A	B	C
12505WS-02A00	7.25	3.05	1.25
12505WS-03A00	8.50	4.30	2.50
12505WS-04A00	9.75	5.55	3.75
12505WS-05A00	11.00	6.80	5.00
12505WS-06A00	12.25	8.05	6.25
12505WS-07A00	13.50	9.30	7.50
12505WS-08A00	14.75	10.55	8.75
12505WS-09A00	16.00	11.80	10.00
12505WS-10A00	17.25	13.05	11.25
12505WS-11A00	18.50	14.30	12.50
12505WS-12A00	19.75	15.55	13.75
12505WS-13A00	21.00	16.80	15.00
12505WS-14A00	22.25	18.05	16.25
12505WS-15A00	23.50	19.30	17.50

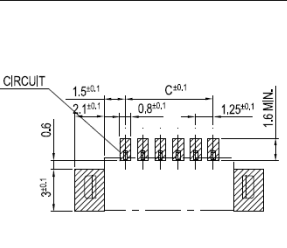
Specification

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Contact Resistance	30mΩ MAX
Withstanding Voltage	AC250V/1min
Insulation Resistance	100MΩ MIN
Applicable Wire	-
Applicable P.C.B	0.8~1.6mm
Applicable FPC/FFC	-
Solder Height	0.15mm
Crimp Tensile Strength	-
UL FILE NO	E108706

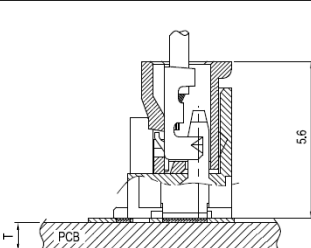








PCB LAYOUT



PCB ASS'Y