

Datasheet
Modular Plugs and Jacks Overview

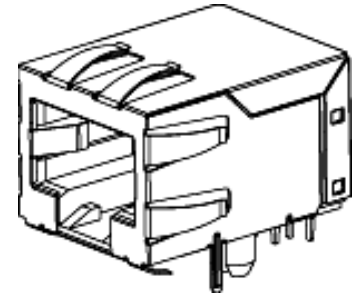
[Modular Plugs and](#)

[[Home](#) > [Products](#) > [Jacks](#) > [Datasheet](#)]

44050-0006

Modular Jack, Right Angle, Low Profile, 8/8

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[2D Dimensions](#)
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Status	Active
Access Level	Internet
Component	PCB Jack
Ports	1
Positions / Loaded Contacts	8/8
Orientation	Right Angle (Side Entry)
Inverted / Top Latch	No
Product Name	RJ45
Performance Category	5
Shielded	Yes
Shielding Effectiveness	20 dB min.
Lightpipes/LEDs	None

MOUNTING

Profile	Low
Grounding to Panel	Location E, With All Panel Grounding Tab
PCB Mounting	Through Hole
Surface Mount Compatible (SMC)	Yes
PCB Retention	Snap-in Plastic Peg
PCB Thickness	1.6mm (.062")

PHYSICAL

Contact	Phosphor Bronze (CuSn)
Plating Contact	1.3µm (50µ") Gold (Au)
Plating Tail	2.5µm (100µ") Tin (Sn)
Under Plating	Nickel (Ni)
Packaging	Tray
Housing Material	PA Polyamide (Nylon), High Temperature, Glass-filled
Color	Black
Flammability	UL 94V-0
Comment	External Shield
Durability [mating cycles] min.	500 cycles

ELECTRICAL

Current-max [amps]	1.5A
Voltage-max [volts]	125V
Withstanding Voltage	1000V AC
Contact Resistance [ohms]	20 milliohms max.

**This part is
ELV and RoHS
COMPLIANT**

ENVIRONMENT	
RoHS Compliant	Yes
Lead-free Process Capability Tested	No
Lead-free Process Capability	Wave Capable (TH only)

Features and Benefits

- High-temperature material allows for surface mount compatibility during solder reflow
- 100% electrically tested for hi-pot and continuity
- Exceeds Category 5 performance
- Meets Gigabit Ethernet industry standard
- Footprint meets industry standard
- Tabs on shield provide enhanced grounding to panel

Insulation Resistance [ohms]	500 Megohms min.
REFERENCE	
UL File Number	E107635
CSA File Number	LR149980
Mates With	FCC 68 Plugs
Temperature Range	-40°C to +60°C
MX01 Catalog Page	O-10
Product Specification	PS-44050-003
Overview	Right Angle Modular Jacks[-8603]
Circuits / Positions	8
Loaded Contacts	8
Molex Series	44050
Product Management	Hirsch, Marty
Lab Office	UCP
Customer Approved	Intel

2D D R A W I N G - For reference only. See technical [Drawing \(PDF\)](#) for design-in purposes.

