

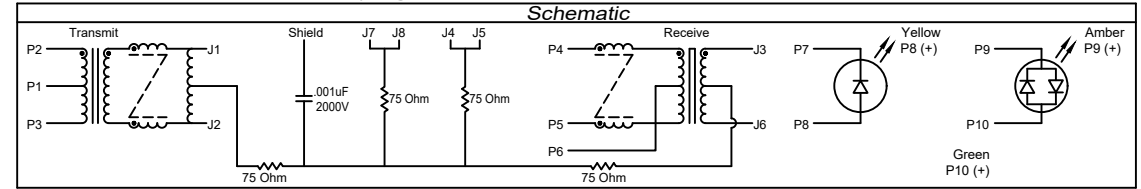
Recommended PCB Layout (Top View)

Electrical Performance of 10/100 Base-T @ 25°C

OCL (µH Min.)	Insertion Loss (dB Max.)	Return Loss (dB Min.)		CMRR (dB Min.)	CMD (dB Min.)	Turns Ratio (± 5 %)	Crosstalk (dB Min.)
		1-100 MHz	@ 60 MHz				
@ 100 KHz, 100m Vrms 8 mA DC Bias	-1	1-30 MHz	@ 60 MHz	100 KHz-100 MHz	100 KHz-100 MHz		1-100 MHz
350	-1	-20	-17	-15	-30	-30	Xmit/Rcv 1CT:1/1CT:1CT -30

NOTE:
Kycon connectors containing LEDs must NOT be processed using Lead-Free Infra-Red reflow soldering using JEDEC-020C (or similar) profiles. Kycon suggests to process these components using Lead-Free WAVE soldering or Post Lead-Free IR reflow insertion methods only.

Isolation: 1500 Vrms LEDs: Vf=2.1V Typ. @ 20mA



Material and Finish (USB)

Body: PA66, glass filled
UL94V-0 rated
color: black
Shield: 0.25mm thick
Copper alloy,
Tin plated

Mechanical Specifications (USB)

Mating Force: 3.6kg Max.
Unmating Force: 1.0kg Min.
Durability Rating:
1500 mating cycles min.

Electrical Specifications (USB)

Rated Voltage:
30V AC (rms)
Contact Current Rating:
1A Max.
Contact Resistance:
30 milliohms Max.
Insulation Resistance:
1000 Megohms Min.
Dielectric Withstanding Voltage:
750V AC

Material and Finish (GSP)

Body: PA66, glass filled
UL94V-0 rated
color: black
Shield: 0.20mm thick
Copper alloy,
Nickel plated
Tin plated solder tabs

Contact: Phosphor Bronze
Nickel underplate on
entire contact, tin
on termination end,
gold flash on contact
area

Electrical Performance (10/100 Base-T)

Category 5 100MHz Bandwidth Performance
Performance meets near end crosstalk (NEXT)
Requirements of -35dB @ 100MHz per
EIA/TIA 568A in applications where UL Approved
Category 5 cable (GA27-3773-1) is used

Electrical Specifications (RJ45)

Insulation Resistance:
500 Megohms Min.
Dielectric Withstanding Voltage:
1000 Volts RMS,
for 1 minute
Contact Resistance:
20 milliohms Max.
Contact Current Rating
1.5 Amps
Durability Rating:
750 mating cycles min.

RoHS COMPLIANT
EU Directive 2002/95/EC



Tolerances
X.X ± 0.25
X.XX ± 0.15
Unless Stated Otherwise

REV.	DATE	DESCRIPTION	REV. BY	CHK. BY	DRAWN BY	DATE
A0	08/07/09	New Drawing	S. Vien	C. Kelleher	S. Vien	7/14/09
A1	09/03/09	Release Drawing	C. Kelleher	N/A		
A2	04/26/10	ECO #10-021	S. Vien	H. MA	UNITS	
A3	12/10/12	ECO #12-062	S. Vien	P. DalCanto		
A4	2/8/13	Update Drawing	D. Gih	P. DalCanto		
A5	08/06/18	Update Address	D. Shehan	N/A	mm	

GSPX-B-S2-GG-9100-R1

Magnetic Filtered RJ45, RoHS Compliant

over 2 Stacked USB A-type Jacks

