

TimeLink



SPL Family

GNSS SIGNAL SPLITTER

ELECTRICAL SPECIFICATIONS:

1.) FREQUENCY RANGE:	1.000 - 2.000 GHz
2.) IMPEDANCE:	50 OHMS
3.) INSERTION LOSS (MAX):	0.4 dB (ABOVE 3.01 dB SPLIT)
4.) AMPLITUDE BALANCE (MAX):	0.2 dB
5.) PHASE BALANCE (MAX):	3 DEGREES
6.) ISOLATION (MIN):	22 dB
7.) INPUT VSWR (MAX):	1.20 : 1
8.) OUTPUT VSWR (MAX):	1.20 : 1
9.) DC VOLTAGE (MAX):	10 V
10.) DC CURRENT (MAX):	50 mA

MECHANICAL SPECIFICATIONS:

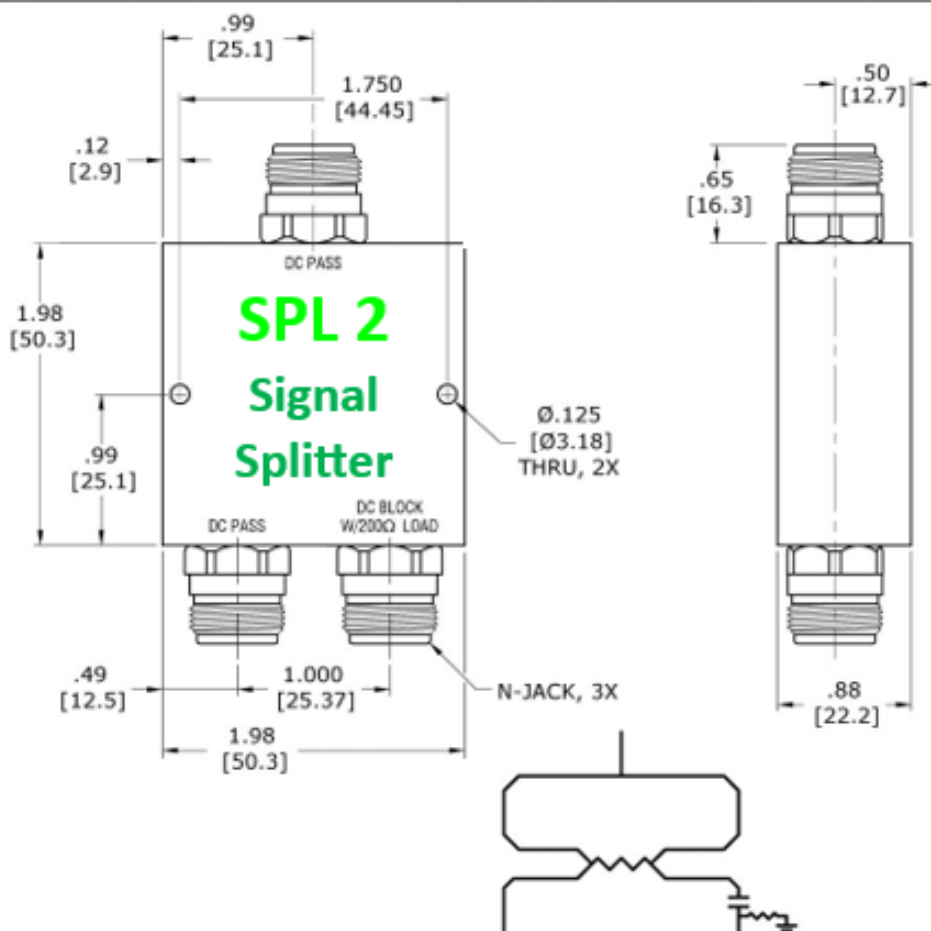
1.) CONNECTORS:	TYPE-N FEMALE (JACK), 50 OHM
2.) CONNECTOR BODY:	BRASS, TRI-ALLOY PLATE
3.) CONNECTOR PIN:	PHOSPHOR BRONZE, GOLD PLATE
4.) INSULATOR:	PTFE, VIRGIN ELECTRICAL GRADE
5.) HOUSING:	ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
6.) SOLDER:	LEAD FREE, RoHS COMPLIANT
7.) OPERATING TEMP:	-65°C TO +85°C
8.) WEIGHT:	174 GRAMS

RF INPUT POWER RATING (POWER DIVIDER SPLITTER):

INTO MATCHED LOAD VSWR's	IN-PHASE	180° OUT-OF-PHASE
1.2 : 1	20 WATTS	20 WATTS
2.0 : 1	20 WATTS	5 WATTS
∞	10 WATTS	0.5 WATTS

RF INPUT POWER RATING (POWER COMBINER):

COHERENT SIGNALS (IN-PHASE)	2 X 10 WATTS
COHERENT SIGNALS (180° OUT-OF-PHASE)	2 X 0.25 WATTS
NON-COHERENT SIGNALS	2 X 0.5 WATTS
OTHER CONDITIONS - CONSULT FACTORY	



GNSS SPLITTER SIGNALS 2 WAY, DC pass 1 port, DC block 1 port w/200Ω load. Typically used for powering an active antenna thru 1 port while splitting the GPS signal.

				TOLERANCES		TimeLink	MODEL NO. SPL 2
				INCHES	MILLIMETERS		
				.00 ± .01	.0 ± .25		
				.000 ± .004	.00 ± .10		
REV	DESCRIPTION	BY	DATE	DRAWN	DATE	DATE	DATE
					06/25/24	12/25/24	

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GNSS SIGNAL SPLITTER

ELECTRICAL SPECIFICATIONS:

1.) FREQUENCY RANGE:	1.000 - 2.000 GHz
2.) IMPEDANCE:	50 OHMS
3.) INSERTION LOSS (MAX):	0.6 dB (ABOVE 6.02 dB SPLIT)
4.) AMPLITUDE BALANCE (MAX):	0.3 dB
5.) PHASE BALANCE (MAX):	3 DEGREES
6.) ISOLATION (MIN):	22 dB
7.) INPUT VSWR (MAX):	1.30 : 1
8.) OUTPUT VSWR (MAX):	1.20 : 1
9.) DC VOLTAGE (MAX):	10 V
10.) DC CURRENT (MAX):	50 mA

MECHANICAL SPECIFICATIONS:

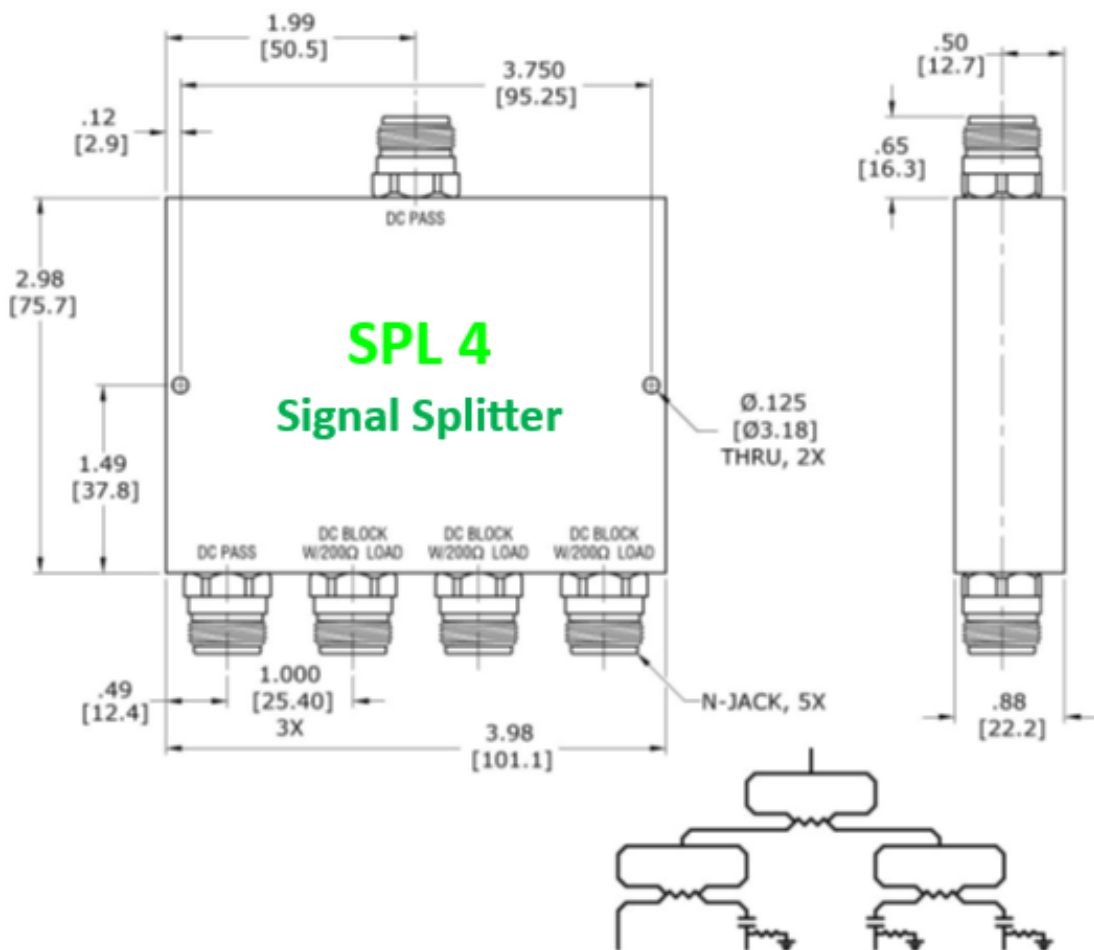
1.) CONNECTORS:	TYPE-N FEMALE (JACK), 50 OHM
2.) CONNECTOR BODY:	BRASS, TRI-ALLOY PLATE
3.) CONNECTOR PIN:	PHOSPHOR BRONZE, GOLD PLATE
4.) INSULATOR:	PTFE, VIRGIN ELECTRICAL GRADE
5.) HOUSING:	ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
6.) SOLDER:	LEAD FREE, RoHS COMPLIANT
7.) OPERATING TEMP:	-65°C TO +85°C
8.) WEIGHT:	452 GRAMS

RF INPUT POWER RATING (POWER DIVIDER SPLITTER):

INTO MATCHED LOAD VSWR's	IN-PHASE	180° OUT-OF-PHASE
1.2 : 1	20 WATTS	20 WATTS
2.0 : 1	20 WATTS	10 WATTS
∞	10 WATTS	1 WATT

RF INPUT POWER RATING (POWER COMBINER):

COHERENT SIGNALS (IN-PHASE)	4 X 5 WATTS
COHERENT SIGNALS (180° OUT-OF-PHASE)	4 X 0.25 WATTS
NON-COHERENT SIGNALS	4 X 0.5 WATTS
OTHER CONDITIONS - CONSULT FACTORY	



GNSS SPLITTER SIGNALS 4 WAY, DC pass 1 port, DC block 3 ports w/200Ω loads. Typically used for powering an active antenna thru 1 port while splitting the GPS signal.

REV	DESCRIPTION	BY	DATE	TOLERANCES		TimeLink	MODEL NO.
				INCHES	MILLIMETERS		
				.00 = ±.01 .000 = ±.004	.0 = ±.25 .00 = ±.10		SPL 4
DRAWN: SM APPROVED: CD				DATE: 04/24/24 DATE: 12/26/24		TITLE: GNSS SPLITTER, 4 WAY, N FEMALE TYPE 1-2 GHz 20 WATTS DC BLOCK 1 INPUT 2 OUTPUTS WITH 200 Ω INTERNAL LOAD	