ELECTRICAL SPECIFICATIONS:

1.) FREQUENCY RANGE:	1000 - 2000 MHz
2.) IMPEDANCE:	50 OHMS
3.) INSERTION LOSS (MAX):	1.0 dB (ABOVE 9.03 dB SPLIT)
4.) AMPLITUDE BALANCE (MAX):	0.5 dB
5.) PHASE BALANCE (MAX):	5 DEGREES
6.) ISOLATION (MIN):	22 dB
7.) INPUT VSWR (MAX):	1.45 : 1
8.) OUTPUT VSWR (MAX):	1.20 : 1
9.) DC VOLTAGE (MAX):	10 V
10.) DC CURRENT (MAX):	50 mA

MECHANICAL SPECIFICATIONS:

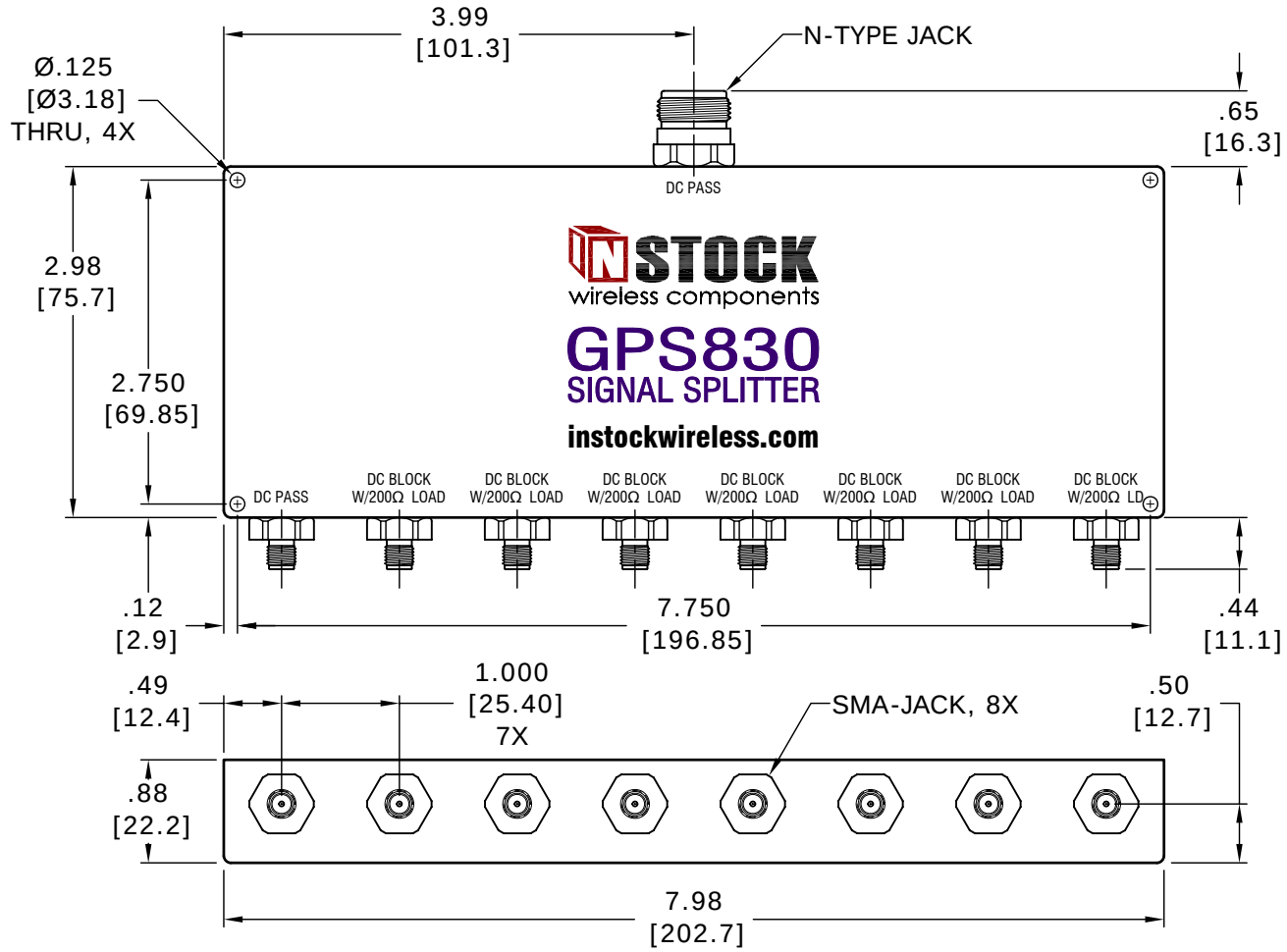
1.) CONNECTORS:	SMA & TYPE-N FEMALE (JACK), 50 OHM
2.) CONNECTOR BODY:	BRASS, TRI-ALLOY PLATE
3.) CONNECTOR PIN:	BE CU & PHOSPHOR BRONZE, GOLD PLATE
4.) INSULATOR:	PTFE, VIRGIN ELECTRICAL GRADE
5.) HOUSING:	ALUMINUM, CLEAR CHEM CONVERSION FILM, RoHS COMPLIANT (NO HEX CHROM)
6.) SOLDER:	LEAD FREE, RoHS COMPLIANT
7.) OPERATING TEMP:	-65°C TO +85°C
8.) WEIGHT:	753 GRAMS

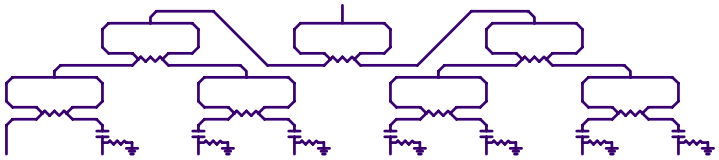
RF INPUT POWER RATING (GPS DIVIDER SPLITTER):

INTO MATCHED LOAD VSWR's	IN-PHASE	180° OUT-OF-PHASE
1.2 : 1	20 WATTS	20 WATTS
2.0 : 1	20 WATTS	20 WATTS
∞	10 WATTS	2 WATTS

RF INPUT POWER RATING (GPS COMBINER):

COHERENT SIGNALS (IN-PHASE)	8 X 2.5 WATTS
COHERENT SIGNALS (180° OUT-OF-PHASE)	8 X 0.25 WATTS
NON-COHERENT SIGNALS	8 X 0.5 WATTS
OTHER CONDITIONS - CONSULT FACTORY	





8-way, GPS signal splitter; DC pass 1 port, DC block 7 ports w/200Ω loads. Typically used for powering an active antenna thru pass ports while splitting GPS signal 8 ways.

REV	DESCRIPTION	BY	DATE

TOLERANCES	
INCHES	MILLIMETERS
.00 = ±.01	.0 = ±.25
.000 = ±.004	.00 = ±.10
DRAWN: MJD	APPROVED: EMM
DATE: 01/21/13	DATE: 01/21/13

INSTOCK wireless components
www.instockwireless.com

MODEL NO. GPS830

TITLE GPS SPLITTER, 8 WAY, SMA & N-TYPE, 1 - 2 GHz, 20 WATTS, RoHS, DC BLOCK 7 PORTS, WITH 200Ω INTERNAL LOAD