

GPS Power Splitter 2/4/8 Way

Telecommunication Technology & Engineering Accessories

Rev.V1.0

GPS Power Splitter



Model: JTD-SP-GPS-0-2NX

Model: JTD-SP-GPS-0-4NX

Model: JTD-SP-GPS-0-8NX

Design For Wireless Infrastructure Applications
Gain OdB, 21dB And Passive Version Available
Response For
GPS:L1,L2,L2C,L5;
Glonass:G1,G2;
Galileo:L1,E1,E2,E5(E5a,E5b),E6;
Beidou2:B1,B2,B3;
IRNSS:L1,L5;
Omni Star
High Isolations > 30dB

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Description:

The 2 way (JTD-SP-GPS-0-2NX) GPS Splitter is a one - input, two - output GPS device. This product typically finds application where an input from an active GPS roof antenna is split evenly between two receiving GPS units. In this scenario, the 2 way GPS Splitter can be configured to pass DC from an RF output (J1) to the antenna input port in order to power an active GPS antenna on that port. The second RF output (J2) would feature a 200 Ohm DC load to simulate an antenna DC current draw for any receiver connected to those ports.

Specifications:

Electrical Specifications, Operating Temperature -40to 85°c

Parameter	Conditions	Min	Тур	Max	Units
Freq. Range	Ant – Any Port	1.1		1.7	GHz
In &Out Imped.	In, all output ports		50		Ω
Gain -0dB	In Output parts, Unused Parts FOO	-1	0	1	ЧÞ
-Amplified(Normal)	In- Output ports, ,Unused Ports -50 Ω	23	24	25	dB
Loss, Passive	In- Output ports, ,Unused Ports -50 Ω	4	4.5	5.0	dB
Input SWR				2:1	-
Output SWR				2:1	-
Nois Figure- Amplified				1.8	dB
Gain Flatness -Amplified:				2	dB
-Passive:				1	dB
Amp. Balance				0.5	dB
Phase Balance				1.0	deg
Group Delay Flatness				1	ns
Tealation	Adjacent Ports: In 50Ω	15			
Isolation -Amplified/Passive	Opposite Ports: In – 50Ω	21			ЧР
-Amplified/Passive -Gain:0dB	Adjacent Ports: In 50Ω	30			dB
-Galli.00D	Opposite Ports: In 50Ω	40			
AC IN	Wall Mount transformer		220		VAC
	DC Block, All ports with a 200 Ω Load			14	
	PASS DC, Amplified	3		16	VDC
DC IN	PASS DC, Passive			16	VDC
	Powered, to be specified				
Device Current				16	
Current	Pass DC, No Powered configuration, DC input on J1			250	mA
	Powered, to be specified				mA
Max RF Input -Amplified				0	D
-Passive	Max RF input without damage			30	- dBm

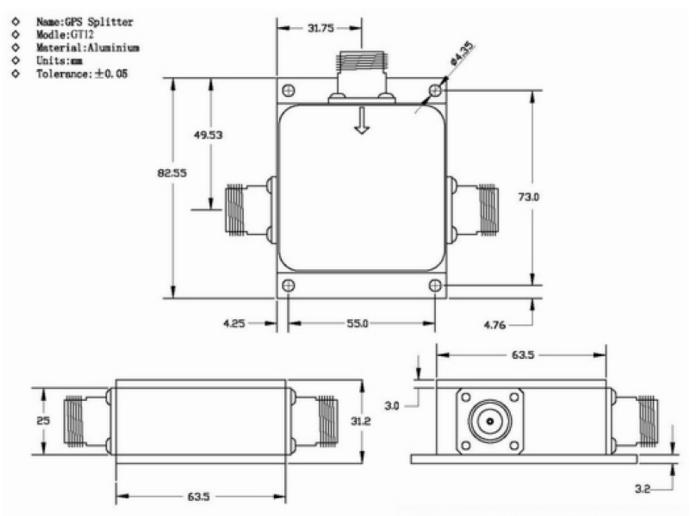


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Mechanical:



Frequency reference table:

Gllobal/Compass Navigation Satellite Systems(GNSS/CNSS)				5					2	2				6/	3			e							1					
Frequency (MHz)	1164	1176	1188	1192	1207	1215	1219	1227	1239	1245	1252	1259	1266	1268	1278	1290	1535	1540	5		1558	1561	1563	157	1587	1592		1609	1616	2491
GPS(USA) L1,L2,L2C,L5		L5+/-1	2			Ľ	2/L2	2C+/-	2									L6+	/-5				L	1+/-1	2					
Glonass(Russia) G1,G2										(32+/- 7	7				Π					Γ				Τ			G1+	-7	
Galileo(Europian)[] L1,E1,E2,E5(E5a,E5b),E6		E5+/-1 ia+/-1		5b+/-1	2									E6+,	/-12			L6+	/-5			E2	L	1+/-1	7		E	1		
Compass (Beidou 2,China)				B2+/	-10							E	33+/	-10								B1+/-	2							
Beidou 1 (China,Tx(LHCP)/Rx(RHCP)																													L	S
IRNSS (India)			L5+	/-15																			L	1+/-1	2					S+/-15
OmniStar																	()+/-1	4	>										



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Description:

The 4 way (JTD-SP-GPS-0-4NX) GPS Splitter is a one - input, four - output GPS device. This product typically finds application where an input from an active GPS roof antenna is split evenly between four receiving GPS units. In this scenario, the 4 way GPS Splitter can be configured to pass DC from an RF output (J1) to the antenna input port in order to power an active GPS antenna on that port. The second, third and fourth RF outputs (J2,J3, & J4) would feature a 200 Ohm DC load to simulatean antenna DC current draw for any receiver connected to those ports.

Specifications:

Electrical Specifications, Operating Temperature - 40to 85°c

Parameter	Conditions	Min	Тур	Max	Units
Freq. Range	Ant – Any Port	1		2	GHz
In &Out Imped.	In, all output ports		50		Ω
Gain -0dB	In- Output ports, ,Unused Ports -50 $oldsymbol{\Omega}$	-1	0	1	dP
-Amplified(Normal)	III- Output poits, Johused Poits -5032	20	21	22	- dB
Loss, Passive	In- Output ports, ,Unused Ports -50 $oldsymbol{\Omega}$	6.5	7.5	8.5	dB
Input SWR				2:1	-
Output SWR				2:1	-
Nois Figure- Amplified				3	dB
Gain Flatness				2	dB
-Amplified: -Passive:				1	dB
Amp. Balance				0.5	dB
Phase Balance				1.0	deg
Group Delay Flatness				1	ns
Isolation	Adjacent Ports: In 50 $\mathbf{\Omega}$	13			
-Amplified/Passive	Opposite Ports: In – 50 $\mathbf{\Omega}$	21			dB
-Gain:0dB	Adjacent Ports: In 50 $\mathbf{\Omega}$	30			ub
Gaintoub	Opposite Ports: In 50 $\mathbf{\Omega}$	40			
AC IN	Wall Mount transformer		220		VAC
	DC Block, All ports with a 200 $\mathbf{\Omega}$ Load			14	
DC IN	PASS DC, Amplified	3		16	- VDC
DCIN	PASS DC, Passive			16	
	Powered, to be specified				
Device Current					
	Pass DC, No Powered configuration, DC input			250	mA
Current	on J1			230	
	Powered, to be specified				mA
Max RF Input	Max RF input without damage			0	dBm
-Amplified -Passive	hax to input without durinage			30	GDI



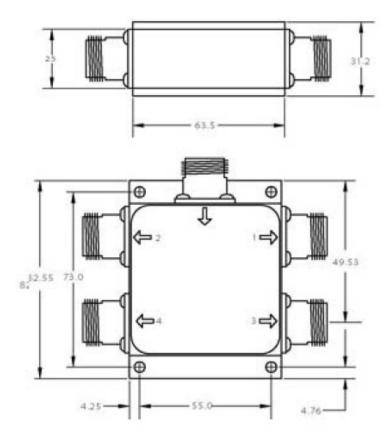
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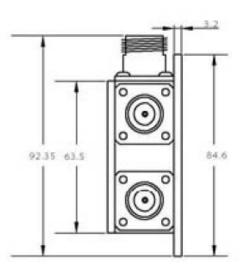


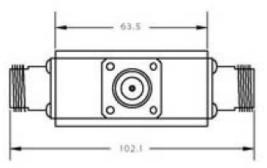
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Mechanical:

- Name:GPS Splitter
- Modle:GT14
- Material:Aluminium
- O Units:mm
- Tolerance:±0.05







Frequency reference table:

Global/Compass Navigation Satellite Systems(GNSS/CNSS)	5								2	2			6/3						6														
Frequency (MHz)	1164	1176		1	192	120	7	1215	1210	227	1230	1245	1252	1250	1266	1268	127		1290	15 AC	1545	1050	1558	1558	156	1563	1575	1587	1592	1602	1609	1616	2491
GPS(USA) L1,L2,L2C,L5	15	-/-12	2				1000	12/1	LZC	+/-1	2										/+6	-5					LI+/-	12					
Gionæs (Russia) G1,G2									Τ				œ+/	-7				Τ													G +/	7	
Galileo(Europian) L1,E1,E2,E5(E5a,E5b),E6	E	E ja+/-	5+/			/-12		ŀ	F		+					Eő	/-12		-		L6+/	-5			EZ		LI+/-	17		E	I	Η	
Compass (Beidou 2,China)					82	+/-1	0	T							B	84/-10)								B1+/-	-2							
Beidou 1 (China,Tx(LHCP)/Rx(RHCP)																																L	S
IFNES (India)				L5+	/-1	5																					LI+/-	12					S+/-15
OmiSar																			į	0	1-14	-	>										_



Website http://www.jtd.com.tw

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Description:

The 8 way (JTD-SP-GPS-0-8NX) GPS Splitter is a one - input, eight - output GPS device. This product typically finds application where an input from an active GPS roof antenna is split evenly between eight receiving GPS units. In this scenario, the 8 way GPS Splitter can be configured to pass DC from an RF output (J1) to the antenna input port in order to power an active GPS antenna on that port. The others outputs would feature a 200 Ohm DC load to simulate an antenna DC current drawfor any receiver connected to those ports.

Specifications:

Electrical Specifications, Operating Temperature - 40to 85°c

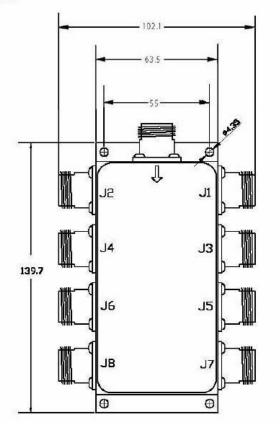
Electrical Specifications,	Operating Temperature - 40to 85°C								
Parameter	Conditions	Min	Тур	Max	Units				
Freq. Range	Ant – Any Port	1.1		1.7	GHz				
In &Out Imped.	In, all output ports		50		Ω				
Gain -0dB	In Output name Unused Date 500	-1	0	1	ar				
-Amplified(Normal)	In- Output ports, ,Unused Ports -50 Ω	9	10	11	dB				
Input SWR				2:1	-				
Output SWR				2:1	-				
Nois Figure- Amplified				2.2	dB				
Gain Flatness				2	ПР				
-Amplified: -Passive:				3	dB				
Amp. Balance				0.5	dB				
Phase Balance				1.0	deg				
Group Delay Flatness				1	ns				
	Adjacent Ports: In 50Ω	28							
Isolation	Opposite Ports: In – 50Ω	34							
-Amplified/Passive	Adjacent Ports: In 50Ω	28			dB				
-Gain:0dB	Opposite Ports: In 50Ω								
AC IN	Wall Mount transformer		230		VAC				
	DC Block, All ports with a 200 Ω Load			14					
	PASS DC, Amplified	3		16					
DC IN	PASS DC, Passive			16	VDC				
	Powered, to be specified								
Device Current				16					
Current	Pass DC, No Powered configuration, DC input on J1			250	mA				
	Powered, to be specified				mA				
Max RF Input -Amplified				0					
-Passive	Max RF input without damage			0	dBm				

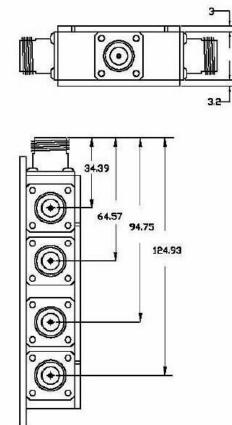


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Mechanical:

- Name: GPS/GNSS Splitter
- Modle:GT18
- Material:Aluminium
- Onits:mm
- ♦ Tolerance:±0.05





Frequency reference table:

Gllobal/Compass Navigation Satellite Systems(GNSS/CNSS)				5						2				6,	3				6											
Frequency (MHz)	1164	1176	1188	1192	1207	1215	1219	1227	1239	1245	1252	1259	1266	1268	1278	1290	1535	1540	1545	1550	1558	1561	1563	1575	1587	1592	1602	1609	1616	
GPS(USA) L1,L2,L2C,L5		L5+/-1	2			L	2/L:	2C+/-	12									L	6+/-5	;			l	.1+/-1	2		Π			
Glonass(Russia) G1,G2										(G2+/-7	7																Gl+	1-7	
Galileo(Europian)[] L1,E1,E2,E5(E5a,E5b),E6		E5+/-1 ia+/-1		5b+/-1	2									E6+	/-12			L	6+/-5	;	_	E2	l	.1+/-1	7		E	9		
Compass (Beidou 2,China)				B2+/	-10							E	33+/	-10								B1+/-	2							
Beidou 1 (China,Tx(LHCP)/Rx(RHCP)																													L	S
IRNSS (India)			L5+	/-15																			l	1+/-1	2					S+/-15
OmniStar																		0+	/-14-	>										



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