YT-ADP-2-20+
Power Splitter/Combiner

Features
- low insertion loss, 0.7 dB typ.
- excellent insertion loss flatness, 0.4 dB peak to peak
- excellent amplitude unbalance, 0.1 dB typ.
- good phase unbalance, 1.1 deg. typ.
- aqueous washable

Applications
- instrumentation
- PCS/cellular
- GPS

YT-ADP-2-20+

2 Way-0° 50Ω 20 to 2000 MHz

electrical schematic

Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS ABOVE 3.0 dB		PHASE UNBALANCE (Degrees)		AMPLITUDE UNBALANCE (dB)	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
20-2000	18	15	0.5	1.5	2.0	5.0	0.2	0.7

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.125W max.

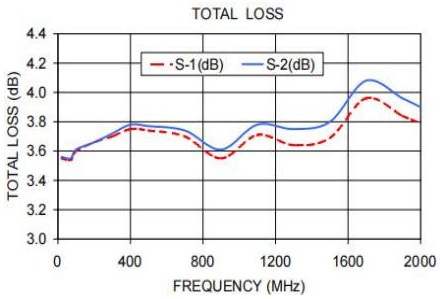
Permanent damage may occur if any of these limits are exceeded.

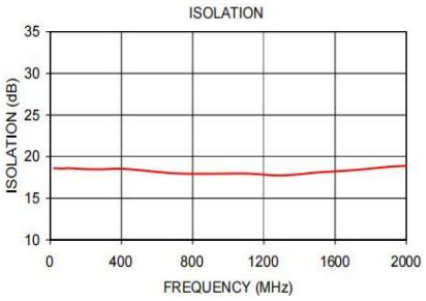
Pin Connections

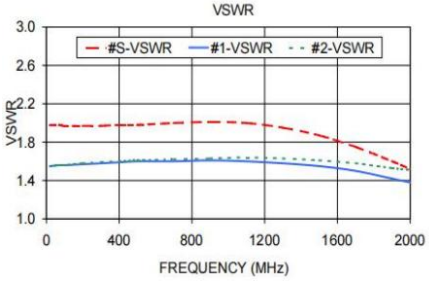
SUM PORT	1
PORT 1	3
PORT 2	4
GROUND	6
NOT USED	2,5

Typical Performance Data(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

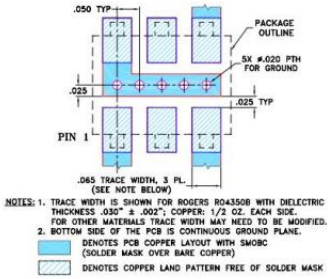
Freq. (MHz)	Total Loss (dB)		Amp. Unbal. (dB)	Isolation (dB)	Phase Unbal. (deg.)	VSWRS		
	S-1	S-2				S	1	2
10	3.53	3.52	0.01	18.61	0.01	2.00	1.57	1.57
50	3.55	3.55	0.01	19.19	0.04	1.97	1.59	1.59
100	3.56	3.56	0.00	19.33	0.06	1.97	1.59	1.59
400	3.66	3.64	0.02	19.78	0.09	1.94	1.62	1.62
600	3.73	3.70	0.03	20.10	0.14	1.91	1.63	1.62
800	3.79	3.72	0.07	20.65	0.09	1.88	1.64	1.63
1000	3.85	3.74	0.11	21.64	0.02	1.87	1.66	1.63
1400	3.96	3.69	0.27	24.95	0.59	1.77	1.71	1.65
1600	4.00	3.66	0.34	26.31	0.88	1.74	1.72	1.64
1800	4.05	3.62	0.43	25.64	1.27	1.66	1.75	1.64
2000	4.18	3.65	0.52	23.38	1.59	1.61	1.74	1.63



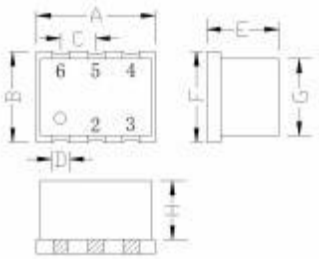




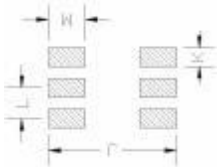
Suggested PCB Layout



Outline Drawing



PCB Land Pattern



Suggested Layout,
Tolerance to be within ±0.2

Outline Dimensions: Unit (mm)

A	8.70	J	8.00
B	6.50	K	1.50
C	2.54	G	5.50
D	1.30	H	4.30
E	5.40	L	2.54
F	6.50	M	2.00
WT	0.5g		

Yantel Corporation

Add：No.308-322,3F,Building 1,Juchuang Jingu Innovation Park,Wenyuan Road 35,Xili Street,Nanshan,Shenzhen,China
Tel: 86-755-8355-1886 Fax: 86-755-8355-2533
For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com