Power Splitter/Combner

HT-SYPS-2-33+

2 Ways- 0° 50Ω 400 to 3000 MHz

Features
- wideband, 400 to 3000 MHz
- low amplitude unbalance, 0.1 dB typ.
- low phase unbalance, 1.0 deg. typ.
- low insertion loss, 0.7 dB typ.

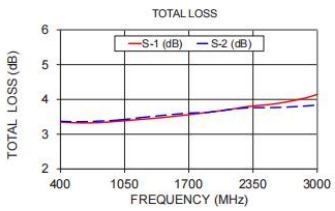
Applications
- VHF/UHF
- cellular, GPS, PCS
- communication systems
- receivers & transmitters
- instrumentation
- CATV

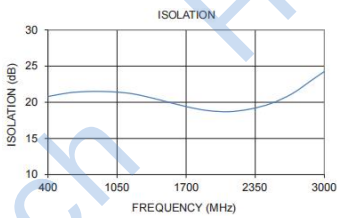
Electrical Specifications at 25°C

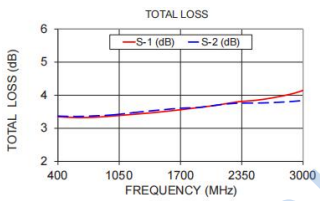
Parameter	Frequency(MHz)	Min.	Typ.	Max.	Unit
Frequency		400		3000	MHz
Insertion Loss (above theoretical 3.0 dB)	700-2700 400-3000	- -	0.6 1.0	1.6 2.1	dB
Isolation	400-3000	14	21	-	dB
Phase Unbalance	700-2700 400-3000	- -	1.0 2.0	6 7	Degree
Amplitude Unbalance	700-2700 400-3000	- -	0.1 0.3	0.6 0.9	dB
VSWR (Port S)	700-2700 400-3000	- -	1.4 1.4	1.75 1.85	:1
VSWR (Port 1-2)	700-2700 400-3000	- -	1.2 1.25	1.5 1.6	:1

Typical Performance Data at 25℃

Frequency (MHz)	Total Loss (dB) S-1	Total Loss (dB) S-2	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSMR S	VSMR 1	VSMR2
400	3.35	3.37	0.02	20.79	0.32	1.43	1.35	1.34
600	3.32	3.36	0.03	21.31	0.46	1.31	1.25	1.25
800	3.33	3.38	0.04	21.49	0.67	1.25	1.21	1.19
1000	3.38	3.41	0.03	21.45	0.45	1.24	1.18	1.17
1200	3.42	3.47	0.05	21.16	0.46	1.25	1.15	1.15
1400	3.47	3.53	0.06	20.51	0.32	1.27	1.13	1.13
1500	3.50	3.56	0.06	20.14	0.26	1.29	1.11	1.12
1700	3.56	3.61	0.05	19.40	0.18	1.32	1.10	1.09
1900	3.63	3.63	0.00	18.86	0.20	1.37	1.10	1.10
2100	3.70	3.71	0.00	18.70	0.65	1.38	1.11	1.10
2300	3.80	3.76	0.04	19.06	0.74	1.35	1.12	1.07
2500	3.85	3.76	0.08	19.84	1.00	1.30	1.11	1.04
2700	3.93	3.78	0.15	21.21	1.25	1.19	1.09	1.03
2900	4.05	3.81	0.24	23.24	1.39	1.05	1.08	1.10
3000	4.15	3.84	0.31	24.25	1.46	1.04	1.09	1.15







Electrical Schematic

Maximum Ratings

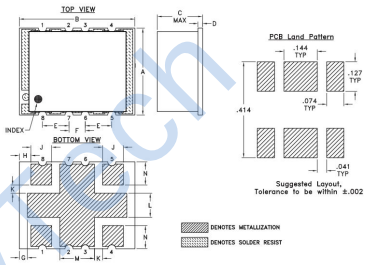
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input*	0.5W max @ 25°C
Intemal Dissipatio	0.05W max

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

Pin Connections

SUM PORT	8
PORT 1	5
PORT 2	4
GROUND	1,2,3,6,7

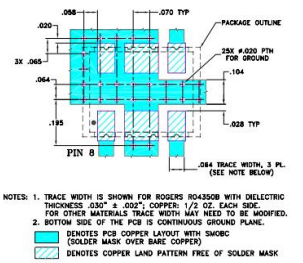
Outline Drawing



Outline Dimensions: Unit (mm)

A	9.65	G	0.89
B	12.70	H	1.27
C	6.35	J	2.29
D	0.51	K	1.02
E	2.92	L	2.67
F	1.78	M	3.56
N	2.41	WT	0.8g

Suggested PCB Layout



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