

Features

- good isolation, 20 dB typ.
- good output matching, VSWR 1.35 typ.
- shielded case
- aqueous washable
- good coplanarity

Applications

- cellular
- ISM
- CATV
- GPS
- PCS
- wireless communication system

YT-SEPS-8-272+



8 Way-0° 50Ω 700 to 2700 MHz

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	5W max.
Internal Dissipation	0.5W max.
Permanent damage may occur if any of these limits are exceeded.	

Pad Connections

SUM PORT	18
PORT 1	1
PORT 2	3
PORT 3	4
PORT 4	6
PORT 5	7
PORT 6	9
PORT 7	10
PORT 8	12
GROUND	all others

Electrical Specifications at 25°C

Parameter	Frequency(MHz)	Min.	Typ.	Max.	Units
Frequency Range	-	700	-	2700	MHz
Insertion Loss (above theoretical 9.0 dB)	900-2400 700-2700	- -	1.8 2.8	2.8 4.9	dB
Isolation	900-2400 700-2700	14 10	20 14	- -	dB
Phase Unbalance	900-2400 700-2700	- -	7.0 10	16 19	Degree
Amplitude Unbalance	900-2400 700-2700	- -	0.6 1.2	1.2 2.1	dB
VSWR (Port S)	900-2400 700-2700	- -	1.7 1.7	- -	:1
VSWR (Port 1-8)	900-2400 700-2700	- -	1.35 1.35	- -	:1

Typical Performance Data

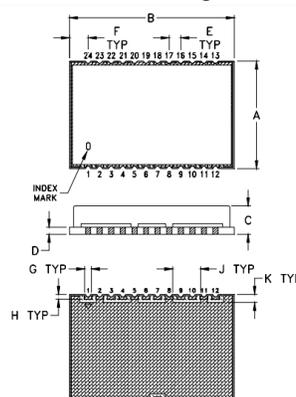
(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Freq. (MHz)	Total Loss1 (dB)				Amplitude Unbalance (dB)	Isolation (dB)				Phase Unbalance (deg.)	VSWR		
	S-1	S-2	S-3	S-4		1-2	2-3	3-4	5-6		S	1	8
700	9.81	9.85	9.82	9.85	0.08	15.23	24.31	14.78	14.44	2.83	1.76	1.35	1.35
800	9.62	9.66	9.64	9.69	0.09	17.37	23.87	16.70	16.28	3.30	1.39	1.26	1.27
900	9.63	9.68	9.65	9.71	0.09	19.67	23.63	18.97	18.45	3.80	1.30	1.20	1.22
1000	9.78	9.83	9.79	9.87	0.10	21.44	23.93	21.44	20.79	4.37	1.47	1.17	1.19
1200	10.29	10.34	10.25	10.35	0.13	20.99	27.25	24.01	23.62	5.37	1.93	1.20	1.24
1400	10.67	10.73	10.53	10.65	0.20	19.31	40.50	21.89	21.86	5.81	2.14	1.30	1.36
1600	10.53	10.60	10.38	10.52	0.25	19.40	27.02	21.11	21.14	5.55	1.80	1.36	1.43
1800	10.27	10.35	10.21	10.35	0.25	20.57	22.16	21.49	21.62	5.16	1.29	1.37	1.42
2000	10.45	10.50	10.42	10.54	0.28	22.47	21.42	23.62	23.69	4.93	1.41	1.34	1.36
2200	10.75	10.78	10.63	10.78	0.33	27.36	23.01	30.95	33.18	5.67	1.52	1.24	1.23
2300	10.82	10.83	10.69	10.87	0.36	26.73	24.76	26.46	28.78	6.07	1.45	1.19	1.18
2400	10.79	10.77	10.73	10.94	0.47	23.25	26.56	21.43	22.87	7.25	1.27	1.16	1.14
2500	10.79	10.75	10.90	11.13	0.68	20.22	25.34	17.94	19.08	8.51	1.14	1.16	1.15
2600	11.12	10.05	11.44	11.68	0.92	17.62	22.07	15.26	16.23	9.50	1.65	1.20	1.18
2700	11.94	11.83	12.47	12.70	1.22	15.38	19.96	13.28	14.14	10.63	2.61	1.30	1.27

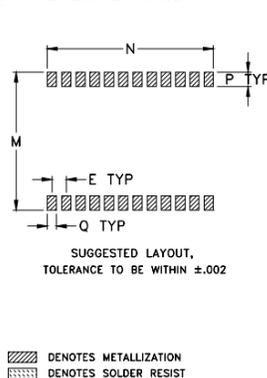
Electrical Schematic



Outline Drawing



PCB Land Pattern



Outline Dimensions: Unit (mm)

Parameter	Value	Parameter	Value
A	23.62	H	1.02
B	36.07	J	6.10
C	6.35	K	1.78
D	1.60	L	3.56
E	2.54	M	24.64
F	4.06	N	29.59
G	1.52	P	2.54
Q	1.65	wt	6.5

