



SPECIFICATIONS

1 General

Part Number	Description
WP RVA-2500	Voltage Variable Attenuator 10MHz~2500MHz; SMD12.7x12.7x4.6mm

2 Revision History

Revision	Released	Revision Detail
R1	2021-10-15	Initial release

3 Maximum Ratings

Item	Value	Unit
Supply Voltage	12	V
Control Voltage	20	V
Max RF Input	+20	dBm
Operating Temperature Range	-55~+85	°C
Storage Temperature Range	-55~+100	°C

4 Electrical Specification

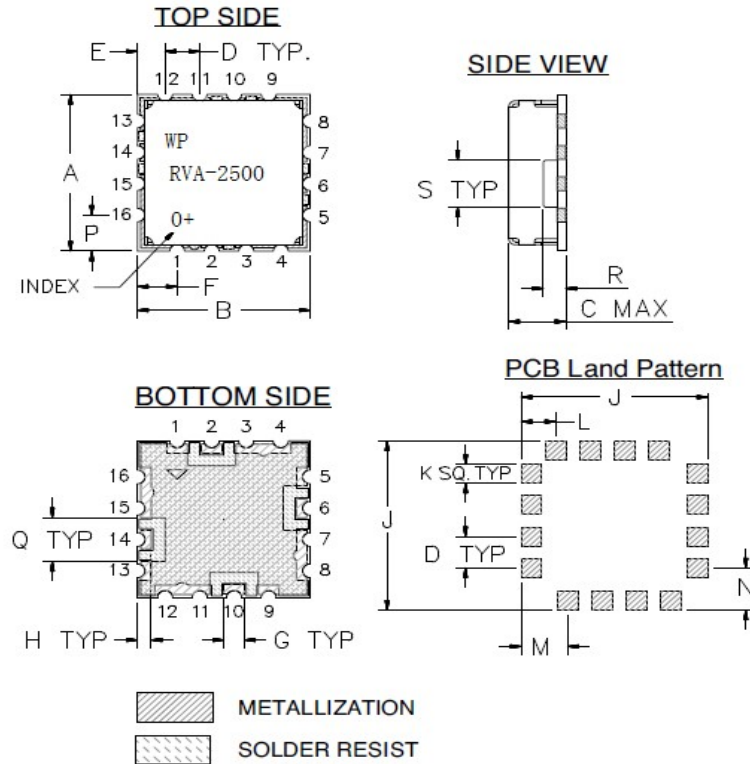
FREQ (MHz)	Insertion Loss (dB)		Max Attenuation (dB)		Control Voltage (V)	Current@V CTRL(mA)	IP3 (dBm)	VCC (V)	Current @VCC (mA)
	Min	Max	Typ.	Min					
10~500	2.8	4.5	54	40	0~17	30	43	+3~+5	5
500~1500	3.0	5.0	40	28	0~17	30	43	+3~+5	5
1500~2500	3.8	5.5	37	25	0~17	30	45	+3~+5	5
2500~3000	4	6	30	20	0~17	30	46	+3~+5	5

Test conditions unless otherwise noted: RF input=0dBm, Vcc=+5V, Temp=+25°C.

FREQ (MHz)	Attenuation (dB), Typical Value				
	1V	2V	4V	5V	17V
10	-80	-21.5	-12.5	-10.5	-2.5
30	-74	-21.5	-12.5	-10.6	-2.5
100	-64	-21.5	-12.6	-10.7	-2.6
200	-58.7	-21.8	-12.7	-10.8	-2.6
500	-49.5	-21.6	-12.8	-10.9	-2.7
800	-46.1	-21.4	-13.1	-11.3	-3.1
1000	-44.4	-21.1	-13	-11.3	-3.3
1500	-41.5	-20.3	-12.8	-11.5	-3.8
2500	-40.3	-20.8	-13.4	-12.8	-4.1
3000	-36	-19.5	-14.2	-12.9	-4.5



5 Package Dimension (Unit: mm)



Unit: mm

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T
12.7	12.7	4.6	2.54	2.03	2.92	1.52	1.02	13.72	1.52	2.54	3.43	3.43	2.92	3.56	1.78	3.81	1.78

Pin#	Function
2	IN (RF)
6	V Control (VCTRL)
10	OUTPUT (RF)
14	Power Supply (VCC)
1, 3, 4, 5, 7, 8, 9, 11, 12, 13, 15, 16	Ground (GND)

6 Welding Requirements (Reflow Profile)

