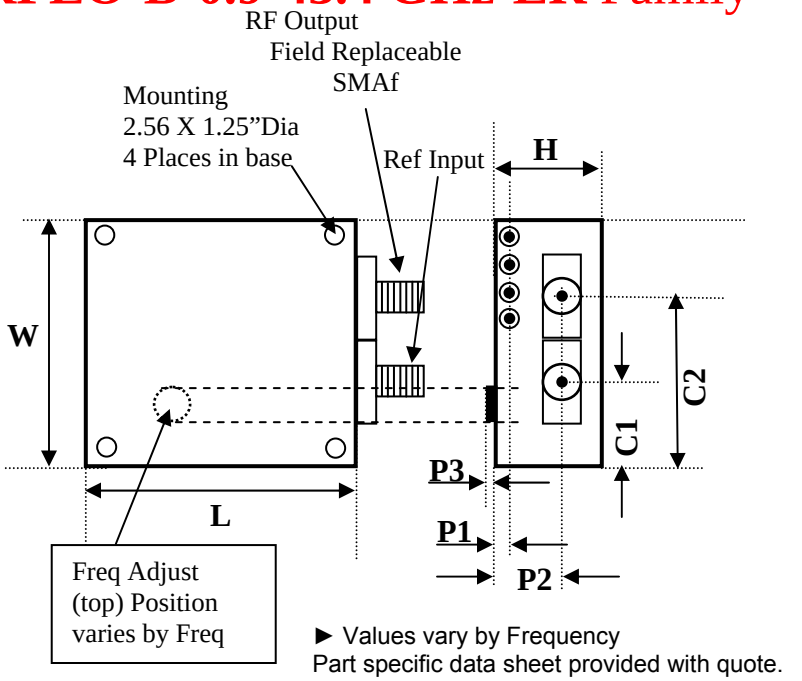
RADITEK INC.

RoHS COMPLIANT code b1

RPLO-B-0.9-43.4 GHz-ER Family

Externally Referenced



► Values vary by Frequency
Part specific data sheet provided with quote.

Dimensions		1	2	3
W	Width	1.5"	1.883"	1.5"
L	Length	2.0"	2.0"	2.0"
H	Height	0.50"	0.652"	1.00"
C1	RF Out	0.335"	0.718"	0.278"
C2	RF In	0.895	1.278"	1.140"
P1		0.116'	0.116"	0.775"
P2		0.314"	0.467"	In-0.5775" Out-0.277"
P3		0.040"	0.040"	0.040"
Model		**1**	**2**	**3**

Specifications	Spec	Units
*Reference Power	-3 to +13	dBm
Supply Voltage	12 to 16	V
►Supply Current	325-200	mA
Operating Temp.	-40 to +70	°C
Storage Temp.	-55 to +85	°C
►Power	2	dB
Lock Alarm	TTL low	V

*** Model 3 - Ref Power >7**

PART#: RPLO-B-FREQ-POWER (VCC)-ER-REF
Example: RPLO-B-1.5-12-15d (12-16V)-ER100M

Frequency (GHz)	Units	0.9-1.4	1.4-2.0	1.9-2.8	2.8-4.0	3.9-5.6	5.6-8.0
RF Power LP	dBm (min)	12-15	12-15	12-15	12-15	12-15	12-15
Reference Frequency	MHz (max)	50~500	50~500	50~500	50~500	50~500	50~500
Mechanical Tuning >+/-	MHz	0.819~1.106	1.162~1.568	1.637~2.210	2.323~3.136	3.274~4.420	4.646~6.272
Harmonics	dBc	-25					
Spurious	dBc	-70					
►Phase Noise (1 Hz BW)							
<100 kHz	REF+dB	20*log(N)+3					
@ 100 kHz	dBc/Hz	-137 to -134	-134 to -131	-131 to -128	-128 to -125	-125 to -122	-122 to -119
@ 1 MHz	dBc/Hz	-141	-141	-141	-141	-141	-141
Model id		**1**	**1**	**1**	**1**	**1**	**1**

Frequency (GHz)	Units	7.9-11.3	11.3-16.0	16.0-19.6	19.6-23.9	23.9-32.2	32.2-43.4
RF Power LP	dBm (min)	13-16	13-16	13-16	13-16	7-10	6-9
Reference Frequency	MHz (max)	50~500	50~500	50~500	50~500	50~500	50~500
Mechanical Tuning >+/-	MHz	6.6~9.2	9.6~12.6	13.2~15.2	16.0~18.8	19.6~25.1	26.4~34.0
Harmonics	dBc	-25					
Spurious	dBc	-80					
►Phase Noise (1 Hz BW)							
<100 kHz	REF+dB	20*log(N)+3					
@100 kHz	dBc/Hz	-119 to -116	-116 to -113	-113 to -111	-111 to -110	-109 to -107	-107 to -105
@ 1MHz	dBc/Hz	-144 to -141	-141 to -138	-138 to -136	-136 to -135	-134 to -132	-132 to -130
Model id		**1**	**1**	**3-sj**	**3-sj**	**1**	**2**

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