

■ Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Rating	Unit
Supply voltage		V _{CC}	14.4	V
Circuit current		I _{CC}	36	mA
Power dissipation		P _D	520	mW
Temperature	Operating ambient temperature	T _{opr}	-20 to +70	°C
	Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	min	typ	max	Unit
Total circuit current	I _{tot}	V _{CC} =12V	17	23	29	mA
Input limiting voltage	V _{i(lim)}	f ₀ =4.5MHz, f _m =400Hz, Δf=±25kHz	—	50	100	μV _{rms}
AM rejection (1)	AMR1	f ₀ =4.5MHz, f _m =400Hz, m=30% (AM), V _i =100mV _{rms}	43	53	—	dB
AM rejection (2)	AMR2	f ₀ =4.5MHz, f _m =400Hz, m=30% (AM), V _i =100 μV _{rms}	27	37	—	dB
Total detector output	V _O	f ₀ =4.5MHz, f _m =400Hz, Δf=±25kHz, V _i =100mV _{rms}	385	550	715	mV _{rms}
Total harmonics distortion	THD	f ₀ =4.5MHz, f _m =400Hz, Δf=±25kHz, V _i =100mV _{rms}	—	0.3	1.0	%
Input resistance	R _{i(IF)}	f=4.5MHz, V _i =30mV	6	15	100	kΩ
Input capacitance	C _{i(IF)}	f=4.5MHz, V _i =30mV	3	6	9	pF

■ Application Circuit

