Cell ←→ PCS Converter(DR) RFUR89-60 / RFDR98-61

Product Features

- Integrated Monolithic GaAs Converter Package Module
- · High Reliability
- · Lower Manufacturing Cost
- Higher Productivity
- Very Low Noise Figure & Low Distortion
- Very Low Phase Noise (Ceramic Resonator used)
- Pb Free / RoHS Standard

Description

Converter is a very compact size due to using simple matching circuit board including PLL circuits. Customers can apply this part to systems.

Specifications

Application

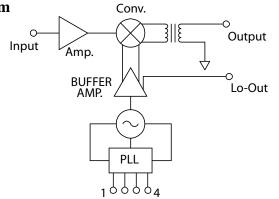
- Repeater
- Base Station



Package Type: HY-5A

ecifications (Operating Temperature:-		ng Temperature:-30°C~+80°C)
PARAMETER	RFUR89-60 (UP)	RFDR98-61 (DOWN)
Input Frequency Range (MHz)	824~849	1750~1780
Output Frequency Range (MHz)	1750~1780	824~849
Local Frequency Range (MHz)	926~931	926~931
Conversion Gain (dB)	6±1	6±1
Gain Flatness @ 30MHz (dB) (Max.)	±1	±1
Noise Figure (Typ.)(dB)	7	10
OIP3 (dBm)	24	24
LO to RF Leakage (dBm)	-10	-15
LO to IF Leakage (dBm)	-20	-20
IF to RF / RF to IF Leakage (dBm)	-20	-20
LO Output Level	4±1	4±1
LO Phase Noise (Typ.) Step Size : 200KHz	-65dBc/Hz @1KHz -95dBc/Hz @10KHz -115dBc/Hz @100KHz	-65dBc/Hz @1KHz -95dBc/Hz @10KHz -115dBc/Hz @100KHz
PLL Control (LMX2326)	3 wire	3 wire
Vcc/Idd	5V / 170mA	5V / 170mA

Functional Diagram



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- All specifications may change without notice.
- Version 6.1





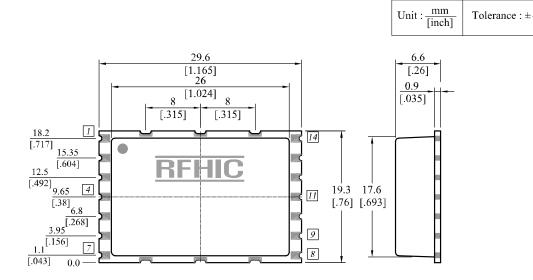
RoHS



0.2

.008

Pacakage Dimensions (Type: HY-5A)



Recommended Pattern -OutLine 1 14 2 **6.8**7 17.1 [.673] [.27] 4 20.3 [.799] 9.41 2.85 [.37] [.112] 7 3 0.5 8 [.315] [.118 [.02] 30.6 [1.205]

1Input14Output2Ground13Ground3Ground12Lo_Out4Vcc+5V11Fo/LD5Ground10LE6Ground9Data	Pin No.	Function	Pin No.	Function
	4	Ground Ground Vcc+5V Ground	13 12 11	Ground Lo_Out Fo/LD LE
7 Ref in 8 Clock	6 7	Ground Ref in	9 8	Data Clock

 Pattern Size
 W

 WxL
 L

 mm
 inch

 A
 2.5 x 1.8
 .098 x .071

 B
 5.6 x 2.5
 .22 x .098

 C
 4 x 2.8
 .157 x .11

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