

# PLL Modules

**HFQC80 SERIES**

9.8±0.3  
8.0±0.3  
12 11 10 9 8 7  
HFQ  
C80Q  
MA01  
1 2 3 4 5 6  
PART No. MANUFACTURER'S MARK AND LOT No.  
1: Factory Code  
2: End figure represents the year.  
3, 4: Week No.  
1: LD 7: PS  
2: Do IF 8: LE  
3: fin IF 9: DATA  
4: Vcc VCO 10: CLK  
5: Vcc PLL 11: GND  
6: RF OUT 12: TCXO IN  
(in mm)

**HFQD80 SERIES**

16151413121110  
17  
18  
HFQD80  
A01  
1 2 3 4 5 6 7  
9.8±0.2  
8.0±0.2  
Max. 2.0  
3.0±0.2  
1.4±0.2  
8.6±0.3  
1.2±0.1  
6.9±0.2  
PART No. MANUFACTURER'S MARK AND LOT No.  
1. End figure represents the year.  
2, 3. Week No.  
1. VccRFVCO 10. TCXOin  
2. PoRF 11. PS (IF)  
3. PS (RF) 12. VccPLL  
4. GND 13. GND  
5. LD 14. CLOCK  
6. PoIF 15. LE  
7. VccIFVCO 16. DATA  
8. GMD 17. GND  
9. GND 18. GND  
(in mm)  Solder

**HFQS57 SERIES**

6.6±0.2  
13 12 11 10 9  
HFQS57  
MA01  
1 2 3 4 5  
1.5 max.  
5.0±0.1  
A  
1.2±0.2 0.8±0.1 0.9±0.2  
4.0±0.1  
1.3±0.2  
1.2±0.2  
16 15 14  
13 12 11 10 9  
5.2±0.2  
5.6±0.1  
1: VccVCO  
2: OUT1  
3: GND  
4: OUT2  
5: LE  
6: DATA  
7: GND  
8: CLK  
9: TCXOin  
10: PS  
11: GND  
12: LD  
13: VccPLL  
14: GND  
15: GND  
16: GND  
Terminals  
 Gold plating  
 Solder  
(in mm)

**HFQW80 SERIES**

17 16 15 14 13 12 11  
18  
19  
20  
HFQW80  
CUTA03A  
1 2 3 4 5 6 7  
9.8±0.3  
8.0±0.3  
1.8(max.)  
0.55  
1.8  
1.4  
0.8  
Lot No.  
Factory code  
End figure of the Christian Era.  
Production Week No.  
Pin Descriptions  
1. VccVCO 11. LD  
2. GND 12. TCXOin  
3. Po 13. VccPLL  
4. GND 14. GND  
5. CK 15. GND  
6. DT 16. SW  
7. LE 17. GND  
8. IFin 18. GND  
9. GND 19. GND  
10. IFDo 20. GND  
4, 9, 14, 19 Terminals  
 Solder  
(in mm)

Series	RF/Local Frequency Limits	IF/Local Frequency Limits	Module Structure	Size (mm)
<b>HFQC80 SERIES</b>	700 to 2000MHz	Only IF Port	RFVCO+DualPLLIC(for CDMA)	9.8 X 8.0 X 1.85
<b>HFQD80 SERIES</b>	700 to 2600MHz	100 to 760MHz	RFVCO+IFVCO+DualPLLIC	9.8 X 8.0 X 1.85
<b>HFQS57 SERIES</b>	700 to 2000MHz	-	RFVCO+PLLIC	6.6 X 5.0 X 1.5
<b>HFQW80 SERIES</b>	700 to 2600MHz	100 to 510MHz	RFVCO+IFVCO+Dual PLLIC	9.8 X 8.0 X 1.6

**Note** • This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering. Especially, please read rating and CAUTION (for storage, operating, rating, soldering, mounting and handling) in them to prevent smoking and/or burning, etc.  
• You are able to read a detailed specifications in the website (<http://search.murata.co.jp/>) before to require our product specifications or to transact the approval sheet for product specifications.