Features
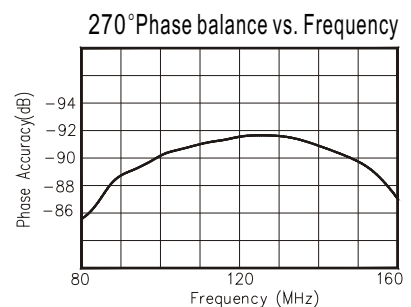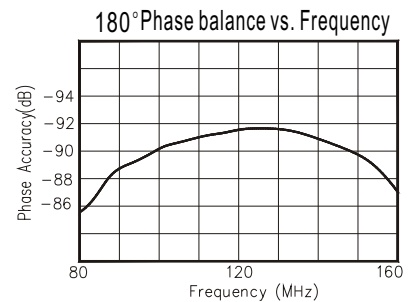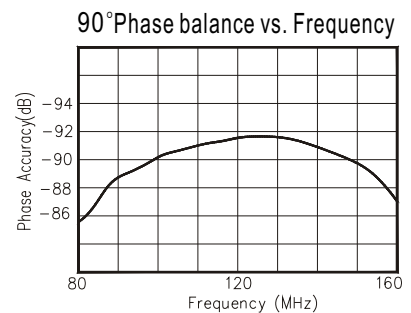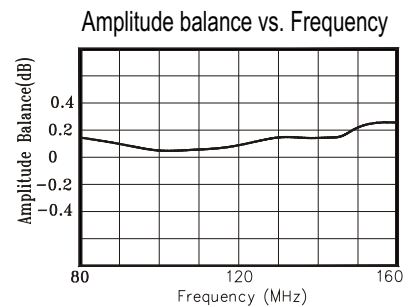
● Low conversion loss
● Frequency range:5～1000MHz
● High carrier rejection
● Low VSWR, 50 ohm impedance
● Hermetic DIP-22D package available
● Operating temperature range:-55℃～+85℃

Specifications(measured in a 50Ω system, TA=:25℃)

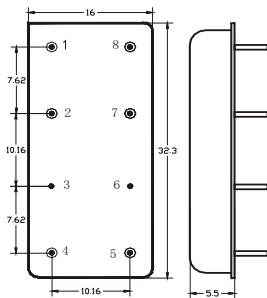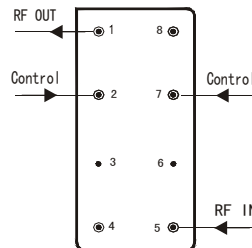| Model	Carrier Frequency (Max)	IL Max (dB)	Amplitude Imbalance Max (dB)	Phase Imbalance Max (deg)	Gain 1dB Compression Input power Min (dBm)	VSWR Max
QPM-01	9.5～11	9.0	1.0	±3.0	+2	1.50
QPM-02	19.5～21.5	9.0	1.0	±4.5	+2	1.50
QPM-03	20～40	8.0	0.8	±3.0	+2	1.50
QPM-04	35～50	8.0	0.8	±3.0	+2	1.50
QPM-05	40～75	7.5	0.5	±3.0	+2	1.50
QPM-06	90～150	7.5	0.5	±3.0	+2	1.50
QPM-07	190～210	8.0	0.8	±3.0	+2	1.50
QPM-08	285～315	8.0	0.8	±3.0	+2	1.50
QPM-09	869～894	8.0	0.8	±3.0	+2	1.50

Notes

1.Generally this series is packaged in hermetic DIP−22D
2.Modulator with internal TTL driver is available within other package

Application Notes：

1.Functional schematic shown as right
2.External driver and current limiting resistor（180~220Ω）are required to provide control current ±20mA
   Logic1: +20mA(Typ)
   Logic0: -20mA(Typ)

RF OUT
Control
Control
RF IN

Pin connection:

Pin1:RFout
Pin2, 7:control
Pin5:Rfin
Others:GND

DIP-22D Bottom View

Truth Tabel and Phase

Control 1, 2	0,0	0°(ref.)
	0,1	−90
	1,1	−180
	1,0	−270

QPM-06 Typical Performance

Amplitude balance vs. Frequency

90°Phase balance vs. Frequency

180°Phase balance vs. Frequency

270°Phase balance vs. Frequency