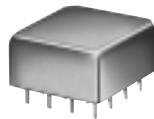


# MODULATORS

50Ω

Plug-In & Coaxial

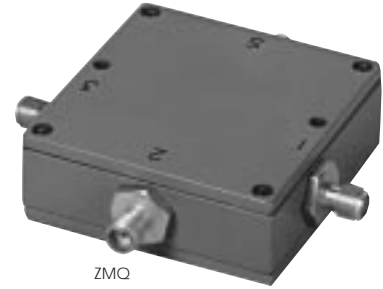
## QPSK 30 to 1050 MHz



QMC



PMQPW



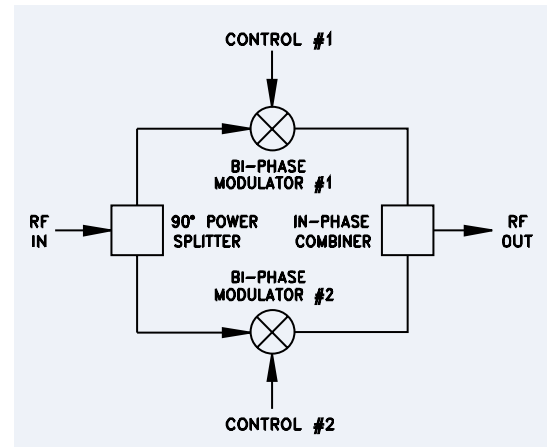
ZMQ

wideband 360° in 90° steps

MODEL NO.	FREQUENCY (MHz)	INSERTION LOSS (dB)		AMPLITUDE UNBALANCE (dB)		PHASE UNBALANCE (Deg.)±		1 dB COMPR. (dBm)	VSWR Typ.		CASE STYLE	CONNECTION	PRICE \$ Qty. (1-9)
		Typ.	Max.	Typ.	Max.	Typ.	Max.		In	Out			
QMC-1050	800-1050	5.5	7.5	0.5	1.0	3	7	4	2.0:1	2.0:1	C07	dr	119.95
PMQPW-150*	30-150	6.0	10.5	0.4	0.9	3	8	4	2:1	2:1	AAA118	ds	172.95
▲ ZMQ-1050	800-1050	5.5	7.5	0.5	1.0	3	7	4	2.0:1	2.0:1	HHH141	du	169.95

### features

- octave & multi-octave bandwidth
- good phase & amplitude balance
- hermetically sealed metallic enclosure with plug-in version.
- capable of meeting MIL-M-28837 requirements



### NOTES:

- \* Protected under patent No. 4,673,898
- ▲ Available only with SMA connectors
- A. General Quality Control Procedures, Environmental Specifications, Hi-Rel and MIL description are given in General Information (Section 0).
- B. Connector types and case mounted options, case finishes are given in section 0, see "Case styles & outline drawings".
- C. Prices and specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current rating:
  - 1a. Input power, 100mW; 1b. Control current, 40mA
- 2. All specifications at control current ±20mA
- 3. Control ports drive with 50 ohms source

### PHASE SHIFT VS. CONTROL CURRENT

CONT-1 (mA)	CONT-2 (mA)	PHASE SHIFT (Deg.)
+20	+20	0 (REF)
+20	-20	90
-20	-20	180
-20	+20	270

### pin and coaxial connections

see case style outline drawings for pin locations

PORT	dr	ds	du
RF IN	13	8	3
RF OUT	2	4	1
CONTROL-1	4	2	4
CONTROL-2	1	6	2
NOT USED	9,12,16	—	—
GND EXT.	3,5,6,7,8, 10,11,14,15	1,3,5,7	—
CASE GND	3,5,6,7,8, 10,11,14,15	1,3,5,7	—



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