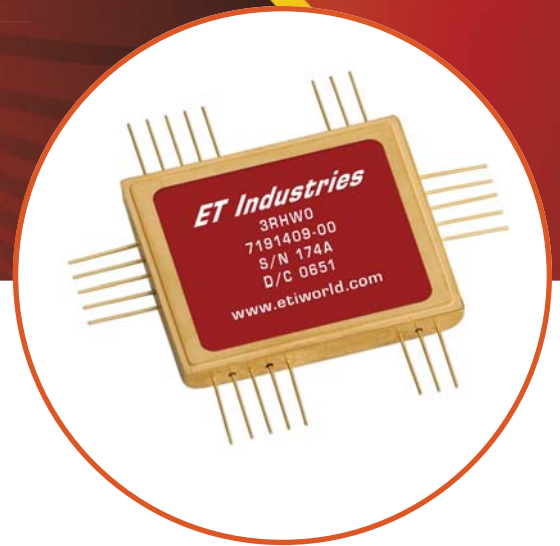


# Vector Modulators



RF Input Level	+10 dBm nom.
VSWR, LO in & RF out	1.5:1 max.
Modulation Bandwidth	500 MHz nom.
Modulation Inputs	see Table for 0 dBm equivalent
Impedance	50 ohms nom.
Insertion Loss**	15 dB typ. 17 dB max.
** (Below Carrier for 0 dBm Mod Input)	
Insertion Loss**	5 dB typ. 7 dB max.
** (Below Modulation Input)	
Modulation Accuracy (measured as 8 PSK, 0 dBm input)	
Amplitude Balance	1 dB max.
Phase Balance	+/-5° max.
Carrier Isolation	35 dB typ.
Weight, nominal	0.32 oz (9g)
Operating Temperature	-55°C to +85°C

Typical Magnitude/Phase/Driver Currents				
State	Data Input I mA	Data Input Q mA	Ampl. dB	Phase deg.
1	+4.5	0	-15.1	0°
2	3.18	+3.18	-14.8	44°
3	0	+4.5	-15.1	91°
4	-3.18	+3.18	-14.8	134°
5	-4.5	0	-15.1	-181°
6	-3.18	-3.18	-14.7	-134°
7	0	-4.5	-15.0	-90°
8	-3.18	-3.18	-14.9	-46°