

Part/Keyword Search



Detailed Drawing



Printer Friendly Datasheet

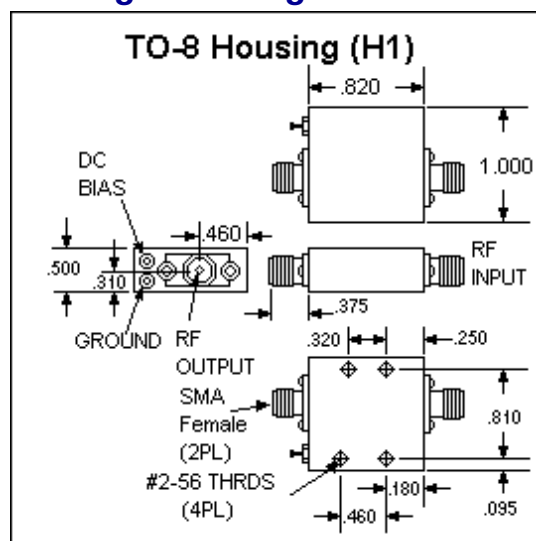
BX3005 / SX3005*

* Part number for additional environmental screening.

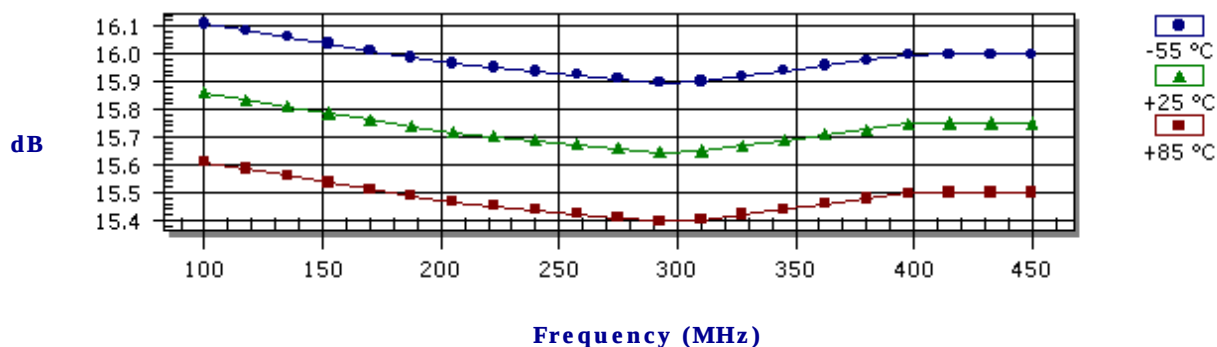
Performance Data

Frequency	100.0 - 450.0 MHz
Gain	16.0 dB Typical 14.5 dB Min
Noise Figure	1.8 dB Typical 2.0 dB Max
P _{1dB}	13.0 dBm Typical 11.0 dBm Min
3 rd Order Intercept	27.0 dBm Typical
2 nd Order Intercept	39.0 dBm Typical
VSWR	1.8/2.0 Input Typ/Max 1.8/2.0 Output Typ/Max
Reverse Isolation	-19.0 dB Typical -18.0 dB Min
Power Supply	15.0 Volts 25.0 mA
Operating Temperature	-10.0 - 70.0 °C

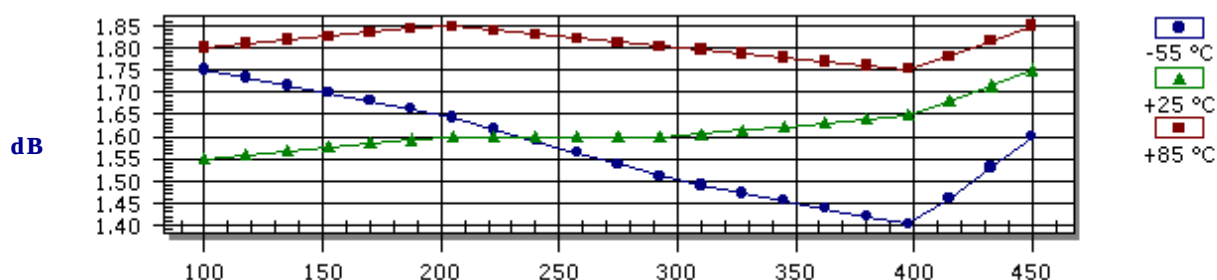
Package Drawing



Gain

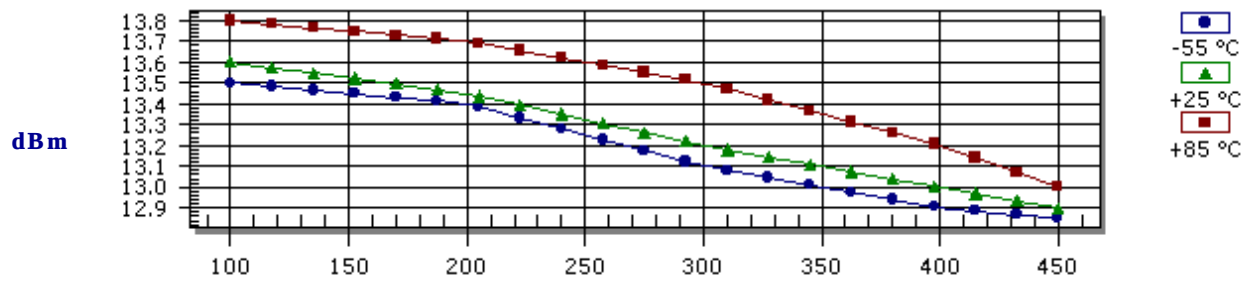


Noise Figure



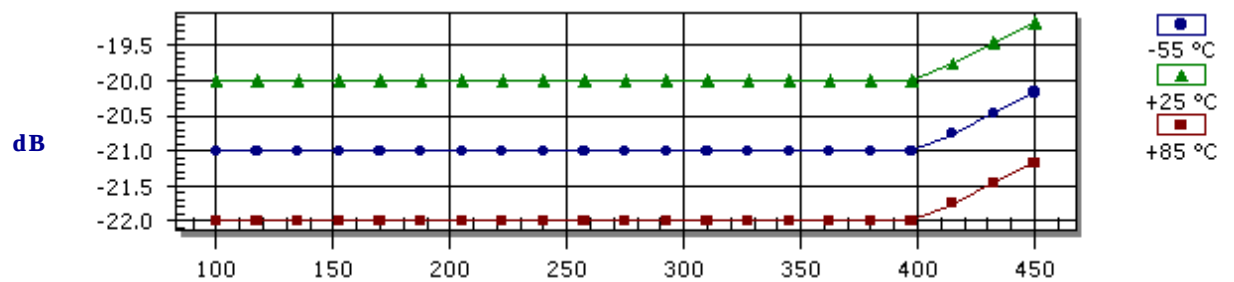
Frequency (MHz)

P_{1dB} Compression Point



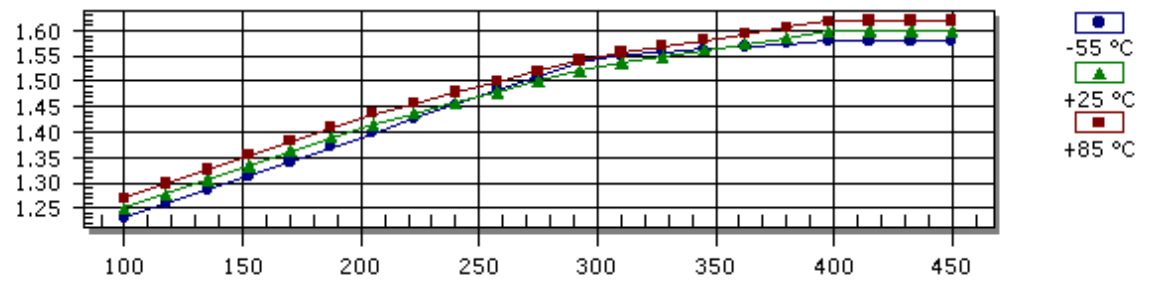
Frequency (MHz)

Reverse Isolation



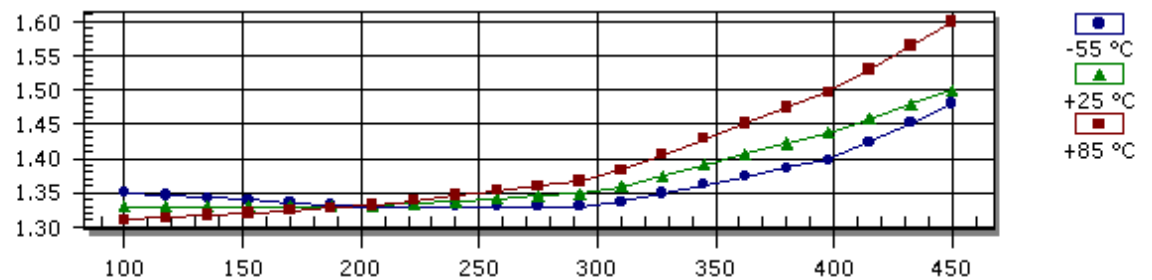
Frequency (MHz)

Input VSWR



Frequency (MHz)

Output VSWR



Frequency (MHz)

S-Parameters

Frequency	S11 Mag	S11 Ang	S21 Mag	S21 Ang	S12 Mag	S12 Ang	S22 Mag	S22 Ang
100.0	0.110	-138.00	6.210	151.00	0.100	151.00	0.140	-39.00
200.0	0.170	-155.00	6.110	121.00	0.100	120.00	0.140	-67.00
300.0	0.210	-180.00	6.050	92.00	0.100	92.00	0.150	-87.00
400.0	0.230	141.00	6.130	60.00	0.100	64.00	0.180	-102.00
450.0	0.230	115.00	6.130	43.00	0.110	48.00	0.200	-110.00

Absolute Maximum Conditions

Maximum Operating Temperature	-55.0 - 100.0 °C	Maximum Storage Temperature	-62.0 - 125.0 °C
Maximum Case Temperature	125.0 °C	Maximum Supply Voltage	18.0 Volts
Continuous RF Input Power	13.0 dBm	Short Term RF Input Power (1 minute max)	50.0 mW
Maximum Peak Power (3 µsec max)	0.5 W		

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