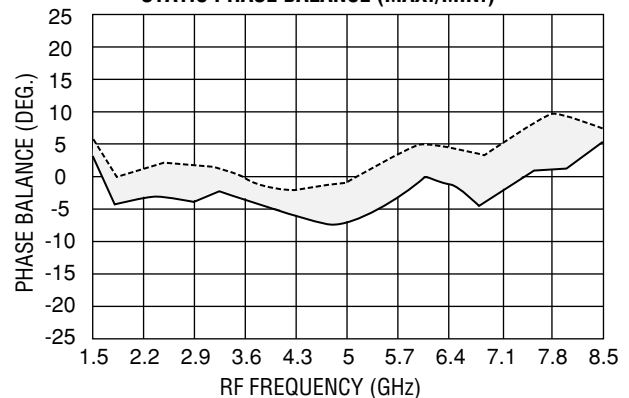
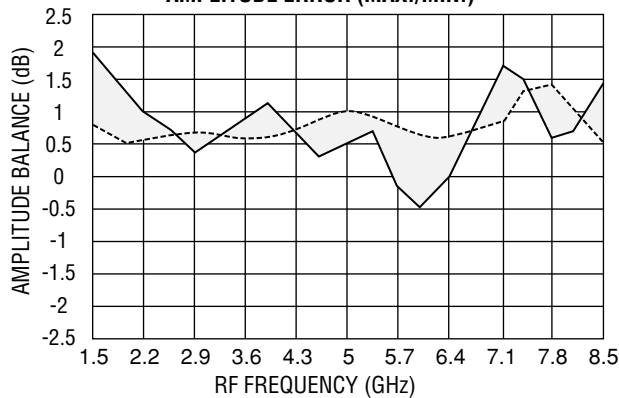


CARRIER DRIVEN TYPICAL TEST DATA

SDM0208LC1CDQ

RF Phase (Deg.)	Graph Key			
I/Q	0	+90	-90	+180
	+/+	-/+	+/-	-/-

I/Q MODE (RF = +13 dBm, I/Q = 0 dBm each input (0.316 volts peak across 50 ohm load))
 AMPLITUDE ERROR (MAX./MIN.) STATIC PHASE BALANCE (MAX./MIN.)



SDM0208LC1CDC

SSB UPCONVERTER (RF = +13 dBm, IF = +3 dBm total, IF = 100 MHz)

Frequency (GHz)	$f_0 + IF$ (I.L., dB) Note 1	$f_0 - IF$ (dBc)	f_0 (dBc)	$f_0 - 2 IF$ (dBc)	$f_0 + 2 IF$ (dBc)	$f_0 - 3 IF$ (dBc)	$f_0 + 3 IF$ (dBc)
2	-6.7	-30.7	-23.2	-58.3	-54.2	-38	-66.4
2.5	-6.2	-34.2	-22.1	-60.3	-50.5	-46.1	-62.2
3	-8	-30.8	-21.4	-62.1	-50.9	-39.2	-59.4
3.5	-7.7	-46.9	-22.5	-70.6	-63.7	-47.6	-72.7
4	-7	-30.2	-22.4	-61	-58.3	-51	-71
4.5	-7.9	-28.1	-20.9	-70.7	-54.3	-47	-62.3
5	-9	-30.4	-19.8	-72.2	-63.6	-48.1	-73.2
5.5	6.5	-32.9	-20	-59.4	-52	-43.3	-73.7
6	-7.2	-24.5	-20.6	-51.1	-46.3	-33.3	-50.9
6.5	-7.6	-32.1	-21.5	-68.4	-50.5	-37.7	-57.2
7	-7.9	-25.4	-20.8	-63.7	-47.6	-37.7	-73.9
7.5	-10.4	-26.7	-18.5	-62.7	-61.6	-46	-64
8	-8.1	-34.7	-17.9	-65.5	-67.1	-48.8	-68.2

MAXIMUM RATINGS

Specification temperature +25°C
 Operating temperature -54 to +85°C
 Storage temperature -65 to +125°C

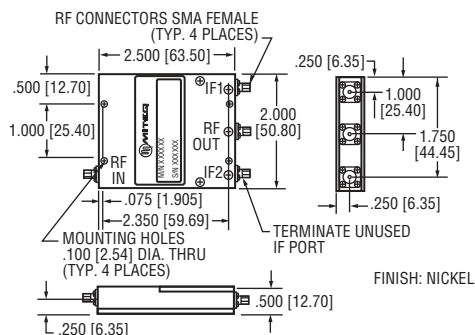
GENERAL NOTES

- Insertion loss relative to +3 dBm IF input. All other outputs, including f_0 , are relative to the desired upper ($f_0 + f_m$) output.
- Standard SSB units with IF hybrids are aligned for upper sideband operation. For lower sideband or selectable sideband, contact MITEQ.
- Available part numbers: SDM0208LC1CD*

A = 20–40 MHz
 B = 40–80 MHz
 C = 100–200 MHz
 Q = DC–500 MHz

NOTE: Test data supplied at 25°C; phase and amplitude balance per spectrum table.

OUTLINE DRAWING



NOTE: All dimensions shown in brackets [] are in millimeters.

BLOCK DIAGRAMS

