

# FOUR-CHANNEL 1 TO 18 GHz IMAGE REJECTION DOWNCONVERTER

## MODEL: SYS40118C20\*

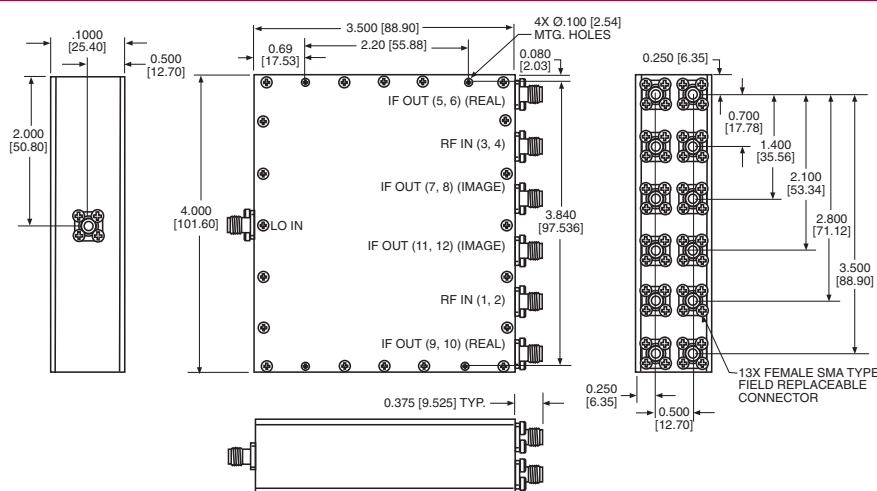
### FEATURES

- Four-amplitude and phase-matched channels
- RF/LO coverage ..... 1 to 18 GHz
- IF option \* A: 20 to 40 MHz  
B: 40 to 80 MHz  
C: 100 to 200 MHz

### ELECTRICAL SPECIFICATIONS

INPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF frequency range		GHz	1		18
RF VSWR	LO = +20 dBm	Ratio		3.5:1	
LO frequency range		GHz	1		18
LO VSWR	LO = +20 dBm	Ratio		2.5:1	
TRANSFER CHARACTERISTICS	CONDITION	UNITS	MIN.	TYP.	MAX.
RF-to-IF conversion loss	LO = +20 dBm	dB			14
Channel to channel Amplitude tracking	LO = +20 dBm	dB	-1.5		+1.5
Phase tracking		Degrees	-15		+15
Isolation		dB	30		
Image rejection		dB	15		
OUTPUT PARAMETERS	CONDITION	UNITS	MIN.	TYP.	MAX.
IF frequency range	See IF options below		20		200
IF VSWR	LO = +20 dBm	Ratio		2:1	

### OUTLINE DRAWING



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

### MAXIMUM RATINGS

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

Available IF frequency options:

SYS40118C20 \*

- A: 20 to 40 MHz
- B: 40 to 80 MHz
- C: 100 to 200 MHz

NOTE: Test data supplied at 25°C; conversion loss, amplitude and phase tracking, channel-to-channel isolation, LO-to-RF isolation and image rejection.