



EUROPEAN MICROWAVE WEEK 2019

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**STAND
A2260**

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Microwave/RF Components

Mixer

- Amplifier
- Attenuator
- Bias Tee
- Coupler
- Detector
- PIN & Coaxial Switch
- Duplexer
- Filter
- Hybrid
- Isolator / Circulator
- Limiter
- Mixer
- Modulator / Demodulator
- Oscillator
- Phase Shifter
- Power Divider
- Termination

➤ Connector

1. Broadband Mixer (Include the following Type)
 - A. Broadband Mixer 0.01 to 20GHz
 - B. Broadband Active Mixer 0.05 to 5GHz
 - C. Broadband Millimeter Mixer 6 to 40GHz
 - D. Frequency multiplier 2 to 22GHz

Pls. see the following spec.

- A. Broadband Mixer 0.01 to 20GHz

P/N: HP-MY82C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	2	-	18	
IF(GHz)	0.03	-	4	
LO Power (dBm)	-	+13	-	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	7.5	9.0	fI=0.03 to 2GHz
	-	8.0	10.5	fI=2 to 4 GHz
Isolation L-R (dB)	16	20	-	fL=2 to 3GHz
	18	30	-	fL=3 to 18GHz
Isolation L-I (dB)	20	30	-	fL=2 to 18GHz
Pin@1dB (dBm)	-	+6	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N: HP-M046C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	2	-	18	
IF (GHz)	0.03	-	2	
LO Power (dBm)	+7	-	+13	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	7.5	9.5	fI=0.03 to 2GHz fR=2 to 18GHz fL=2 to 18GHz
	-	7.5	9.5	fI=2 to 3GHz fL=3 to 18GHz
Isolation L-R (dB)	13	20	-	fL=2 to 3GHz
Isolation L-I (dB)	20	30	-	fL=2 to 18GHz
Pin@1dB (dBm)	-	+5	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M50C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	2	-	18	
IF (GHz)	0.03	-	2	

Click below link to switch to our other product categories

- Antenna Products
- Power Components
- Waveguide Components
- Cable and Connectors

LO(RF) (GHz)	2	-	20	
IF (GHz)	1	-	6	
LO Power (dBm)	-	+10	-	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	7.5	9.5	fL=2 to 6GHz fR=2.5 to 18GHz fL=2 to 18GHz
	-	8.0	10.5	fL=2 to 6 GHz fR=2 to 18GHz fL=2 to 20GHz
	-	9.0	11.5	fL=1 to 6 GHz fR=2 to 20GHz fL=2 to 20GHz
Isolation L-R (dB)	20	30	-	fL=3 to 20GHz
	15	25	-	fL=2 to 3GHz
Isolation L-I (dB)	20	30	-	fL=7 to 20GHz
	15	25	-	fL=2 to 7GHz
Pin@1dB (dBm)	-	+5	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M83C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	2	-	18	
IF (GHz)	0.03	-	4	
LO Power (dBm)	-	+13	-	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	6.5	8.0	fL=0.03 to 2GHz fR=5 to 13GHz fL=5to 13GHz
	-	7.5	9.0	fL=0.03 to 4 GHz fR=2 to 16GHz fL=2to 18GHz
	-	8.5	10.5	fL=0.03 to 4 GHz fR=1 to 18GHz fL=2to 18GHz
Isolation L-R (dB)	16	20	-	fL=2 to 3GHz
	18	30	-	fL=3 to 18GHz
Isolation L-I (dB)	20	30	-	fL=2 to 18GHz
Pin@1dB (dBm)	-	+6	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M86C(Connector package)

Items	Min	Typ	Max	Notes
LO (GHz)	3.5	-	18	
RF (GHz)	6	-	18	
IF (GHz)	0	-	3	
LO Power (dBm)	-	+7	-	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	6.0	8.0	fL=0.03 to 1GHz fR=6 to 16GHz fL=5 to 17GHz
	-	7.0	9.0	fL=0.03 to 3GHz fR=6 to 18GHz fL=3.5 to 18GHz
Isolation L-R (dB)	23	36	-	fL=3.5 to 14GHz
	18	32	-	fL=14 to 18GHz
Isolation L-I (dB)	16	28	-	fL=3.5 to 9GHz
	23	38	-	fL=9 to 18GHz
Pin@1dB (dBm)	-	+3	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M210C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	2	-	10	
IF (GHz)	0	-	1	
LO Power (dBm)	+5	-	+10	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	7.0	8.5	fL=0 to 1GHz fR=2 to 10GHz fL=2 to 10GHz
Isolation L-R (dB)	20	30	-	fL=2 to 10GHz
Isolation L-I (dB)	15	25	-	fL=8 to 17GHz
Pin@1dB (dBm)	-	+3	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M033C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	2	-	18	
IF (GHz)	0	-	2	
LO Power (dBm)	+7	-	+13	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	7.0	8.5	fL=0.03 to 2GHz fR=2 to 18GHz fL=2 to 18GHz
	15	20	-	fL=2 to 3GHz

Isolation L-R (dB)	18	30	-	fL=3 to 18GHz
Isolation L-I (dB)	20	30	-	fL=2 to 18GHz
Pin@1dB (dBm)	-	+5	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M2068C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	2	-	18	
IF (GHz)	1	-	6	
LO Power (dBm)	+7	-	+13	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	7.5	10	fI=1 to 6 GHz fR=2 to 18GHz fL=2 to 18GHz
Isolation L-R (dB)	20	30	-	fL=3 to 18GHz
	16	25	-	fL=2 to 3GHz
Isolation L-I (dB)	20	30	-	fL=7 to 18GHz
	16	25	-	fL=2 to 7GHz
Pin@1dB (dBm)	-	+5	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M082C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	2	-	18	
IF (GHz)	1	-	6	
LO Power (dBm)	+7	-	+13	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	7.5	10	fI=1 to 6 GHz fR=2 to 18GHz fL=2 to 18GHz
Isolation L-R (dB)	20	30	-	fL=3 to 18GHz
	16	25	-	fL=2 to 3GHz
Isolation L-I (dB)	20	30	-	fL=7 to 18GHz
	16	25	-	fL=2 to 7GHz
Pin@1dB (dBm)	-	+5	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M092C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	2	-	18	
IF (GHz)	1	-	6	
LO Power (dBm)	+7	-	+13	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	7.5	10.5	fI=1 to 6 GHz fR=2 to 18GHz fL=2 to 18GHz
Isolation L-R (dB)	20	25	-	fL=3 to 18GHz
	13	20	-	fL=2 to 3GHz
Isolation L-I (dB)	20	25	-	fL=7 to 18GHz
	13	20	-	fL=2 to 7GHz
Pin@1dB (dBm)	-	+5	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M0518C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	0.5	-	18	
IF (GHz)	0	-	0.5	
LO Power (dBm)	+7	-	+13	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	8	-	
Isolation L-R (dB)	-	30	-	
Isolation L-I (dB)	-	25	-	
Pin@1dB (dBm)	-	+3	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M818C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	8	-	18	
IF (GHz)	0	-	1.5	
LO Power (dBm)	+5	-	+10	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	5.5	7.5	fI=0 to 1.5GHz fR=8 to 18GHz fL=8 to 18GHz
Isolation L-R (dB)	25	40	-	fL=8 to 18GHz
Isolation L-I (dB)	25	40	-	fL=8 to 18GHz
Pin@1dB (dBm)	-	+3	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M16

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	1	-	6	
IF (GHz)	0	-	1	
LO Power (dBm)	+5	-	+10	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	7.0	8.5	fI=0 to 1GHz fR=1 to 6GHz fL=1 to 6GHz
Isolation L-R (dB)	20	30	-	fL=1 to 6GHz
Isolation L-I (dB)	15	25	-	fL=1 to 6GHz
Pin@1dB (dBm)	-	+3	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

P/N:HP-M216C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	2	-	16	
IF (GHz)	0	-	1	
LO Power (dBm)	+5	-	+10	+3 to +20dbm is available for customized design.
Conversion Loss (dB)	-	7	8.5	fI=0 to 1GHz fR=2 to 10GHz fL=2 to 10GHz
	-	8	10	fI=0 to 1GHz fR=10 to 16GHz fL=10 to 16GHz
Isolation L-R (dB)	20	30	-	fL=2 to 16GHz
Isolation L-I (dB)	15	25	-	fL=2 to 16GHz
Pin@1dB (dBm)	-	+3	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

B. Broadband Active Mixer 0.05 to 5GHz

P/N:HP-M055C(Connector package)

Items	Min	Typ	Max	Notes
LO(RF) (GHz)	0.05	-	5	
IF (GHz)	0	-	2	
LO Power (dBm)	-	0	-	
Gain (dB)	-	+15	-	
Isolation L-R (dB)	-	-30	-	
Isolation L-I (dB)	-	-20	-	
VSWR RF	-	1.5:1	-	
VSWR LO	-	2:1	-	
VSWR IF	-	2.3:1	-	
Pin@1dB (dBm)	-	+8	-	
Voltage (V)	-	+12	-	
Current (mA)	-	55	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

C. Broadband Millimeter Mixer 6 to 40GHz

P/N: HP-M1840C(Connector package)

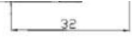
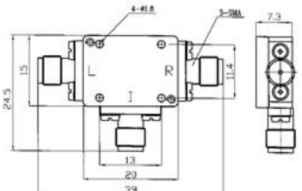
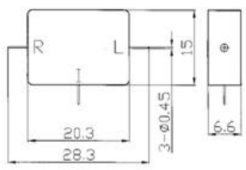
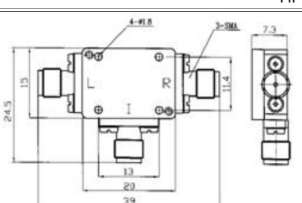
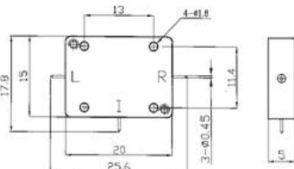
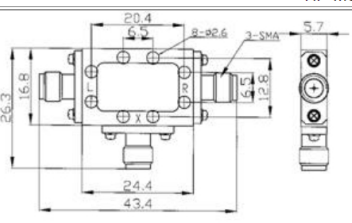
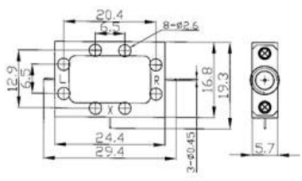
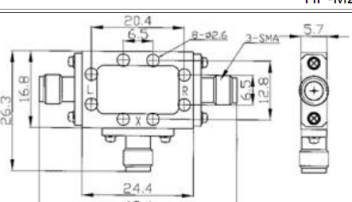
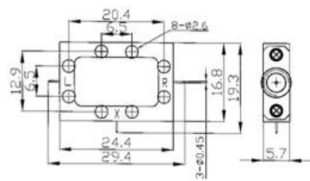
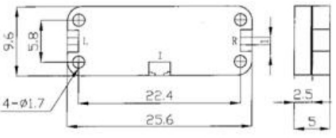
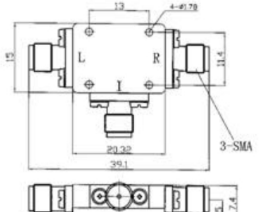
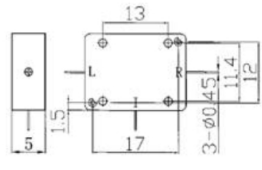
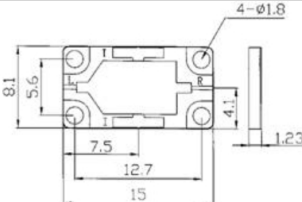
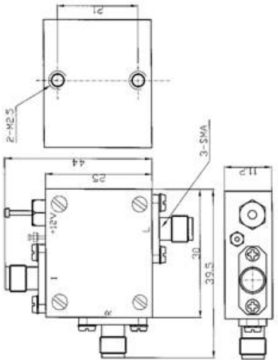
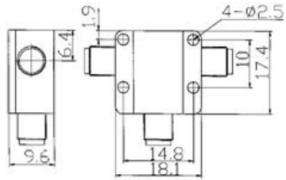
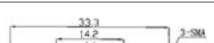
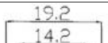
Items	Min	Typ	Max	Notes
LO(RF) (GHz)	18	-	40	
IF (GHz)	0	-	10	
LO Power (dBm)	+14	-	-	
Conversion Loss (dB)	-	10	-	
Isolation L-R (dB)	-	35	-	
Isolation L-I (dB)	-	30	-	
Pin@1dB (dBm)	-	+4	-	
Operating Temperature (°C)	-55	-	+85	
Storage Temperature (°C)	-65	-	+100	

D. Frequency multiplier 2 to 22GHz

P/N	Drive Power (dBm)	Input Freq. (GHz)	Output Freq. (GHz)	Conversion Loss (dB)	Input VSWR	3rd Rejection (dBc)	Case
HP-D24/24c	+13	1-2	2-4	10	1.5	25	A1,A1-C
HP-D48/48c	+13	2-4	4-8	10	1.5	25	A1,A1-C
HP-D48B/48bc	+13	2-4	4-8	10	1.5	25	B1
HP-D816/816c	+13	4-8	8-16	10	2	25	A1,A1-C
HP-D816B/816bc	+13	4-8	8-16	10	2	25	B1
HP-D418/418c	+13	2-9	4-18	11	2	25	A1,A1-C
HP-D420/420c	+13	2-10	4-20	11.5	2	25	A1,A1-C
HP-D622/622c	+13	3-11	6-22	11	2.5	25	B1

Outline Drawings(Size:mm)

HP-MY82C	HP-MY82
HP-M83C	HP-M83
HP-M50C	HP-M50
HP-M030	HP-M030
HP-M86C	HP-M86
HP-M46C	HP-M46
HP-M033C	HP-M033
HP-M033	HP-M033

	
<p>HP-M2068C</p> 	<p>HP-2068</p> 
<p>HP-M082C</p> 	<p>HP-M082</p> 
<p>HP-M092C</p> 	<p>HP-M092</p> 
<p>HP-M210C</p> 	<p>HP-M210</p> 
<p>HP-M216C</p> 	<p>HP-M216</p> 
<p>HP-M16</p> 	<p>HP-M818C</p> 
<p>HP-M818</p> 	<p>HP-M818P</p> 
<p>HP-M055C</p> 	<p>HP-M1840C</p> 

HP-M440C	HP-M440
A1-C	A1
A2-C	A2
A3-C	A4-C
B1	B2-C
C2	

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