

PHASE COMPARATORS

Click package to view outline drawing



SURFACE-MOUNT MODELS

FREQUENCY RANGE (MHz)	IMPEDANCE (Ohm)		LO POWER LEVEL	RF POWER LEVEL	PHASE ERROR	PHASE RANGE	DC OUTPUT (mV p-p)	DC OFFSET (mV)	PACKAGE	PIN-OUT (See Below)	MODEL
LO/RF	LO/RF	OUTPUT	(dBm)	(dBm)	MAX	NOM.	TYP	TYP/MAX			
10-20	50	500	+10	0	+/-2°	360°	300	0.3/1.0	124S	1	PCS-901
20-40	50	500	+10	0	+/-2°	360°	300	0.4/1.0	124S	1	PCS-902
55-90	50	500	+10	0	+/-2°	360°	300	0.5/2.0	124S	1	PCS-904
80-160	50	500	+10	0	+/-3°	360°	300	1.0/2.0	124S	1	PCS-908
100-200	50	500	+10	0	+/-3°	360°	300	1.0/3.0	124S	1	PCS-910
160-320	50	500	+10	0	+/-4°	360°	300	1.0/3.0	124S	1	PCS-916
225-400	50	500	+10	0	+/-4°	360°	300	1.0/4.0	124S	1	PCS-922
300-500	50	500	+10	0	+/-4°	360°	300	2.0/5.0	124S	1	PCS-930
400-600	50	500	+10	0	+/-5°	360°	300	2.0/6.0	124S	1	PCS-940
700-900	50	500	+10	0	+/-5°	360°	300	2.0/8.0	124S	1	PCS-970
800-1000	50	500	+10	0	+/-5°	360°	300	3.0/10.0	124S	1	PCS-980



THROUGH HOLE MODELS

FREQUENCY RANGE (MHz)	IMPEDANCE (Ohm)		LO POWER LEVEL	RF POWER LEVEL	PHASE ERROR	PHASE RANGE	DC OUTPUT (mV p-p)	DC OFFSET (mV)	PACKAGE	PIN-OUT (See Below)	MODEL
LO/RF	LO/RF	OUTPUT	(dBm)	(dBm)	MAX	NOM.	TYP	TYP/MAX			
10-20	50	500	+10	0	+/-2°	360°	300	0.3/1.0	136	2	PCP-901
20-40	50	500	+10	0	+/-2°	360°	300	0.4/1.0	136	2	PCP-902
55-90	50	500	+10	0	+/-2°	360°	300	0.5/2.0	136	2	PCP-904
80-160	50	500	+10	0	+/-3°	360°	300	1.0/2.0	136	2	PCP-908
100-200	50	500	+10	0	+/-3°	360°	300	1.0/3.0	136	2	PCP-910
160-320	50	500	+10	0	+/-4°	360°	300	1.0/3.0	136	2	PCP-916
225-400	50	500	+10	0	+/-4°	360°	300	1.0/4.0	136	2	PCP-922
300-500	50	500	+10	0	+/-4°	360°	300	2.0/5.0	136	2	PCP-930
400-600	50	500	+10	0	+/-5°	360°	300	2.0/6.0	136	2	PCP-940
700-900	50	500	+10	0	+/-5°	360°	300	2.0/8.0	136	2	PCP-970
800-1000	50	500	+10	0	+/-5°	360°	300	3.0/10.0	136	2	PCP-980

NOTE:

- Output polarity is negative on all models.
- Maximum RF input power, 100 mW. Peak IF current, 40mA.

PIN-OUT TABLE

	LO	RF	SINE	COSINE	CASE GND
#1	16	1	13	4	All Other
#2	1	7	8	3	All Other

For pin location and package outline drawings, see back pages.

PHASE COMPARATORS



FLAT PACK MODELS

FREQUENCY RANGE (MHz)	IMPEDANCE (Ohm)		LO POWER LEVEL	RF POWER LEVEL	PHASE ERROR	PHASE RANGE	DC OUTPUT (mV p-p)	DC OFFSET (mV)	PACKAGE	PIN-OUT (See Below)	MODEL
LO/RF	LO/RF	OUTPUT	(dBm)	(dBm)	MAX	NOM.	TYP	TYP/MAX			
10-20	50	500	+10	0	+/-2°	360°	300	0.3/1.0	115	1	PCF-101
20-40	50	500	+10	0	+/-2°	360°	300	0.4/1.0	115	1	PCF-102
55-90	50	500	+10	0	+/-2°	360°	300	0.5/2.0	115	1	PCF-104
80-160	50	500	+10	0	+/-3°	360°	300	1.0/2.0	115	1	PCF-108
100-200	50	500	+10	0	+/-3°	360°	300	1.0/3.0	115	1	PCF-110
160-320	50	500	+10	0	+/-4°	360°	300	1.0/3.0	115	1	PCF-116
225-400	50	500	+10	0	+/-4°	360°	300	1.0/4.0	115	1	PCF-122
300-500	50	500	+10	0	+/-4°	360°	300	2.0/5.0	115	1	PCF-130
400-600	50	500	+10	0	+/-5°	360°	300	2.0/6.0	115	1	PCF-140
700-900	50	500	+10	0	+/-5°	360°	300	2.0/8.0	115	1	PCF-170
800-1000	50	500	+10	0	+/-5°	360°	300	3.0/10.0	115	1	PCF-180



COAXIAL (SMA-F) CONNECTOR MODELS

FREQUENCY RANGE (MHz)	IMPEDANCE (Ohm)		LO POWER LEVEL	RF POWER LEVEL	PHASE ERROR	PHASE RANGE	DC OUTPUT (mV p-p)	DC OFFSET (mV)	PACKAGE	PIN-OUT (See Below)	MODEL
LO/RF	LO/RF	OUTPUT	(dBm)	(dBm)	MAX	NOM.	TYP	TYP/MAX			
10-20	50	500	+10	0	+/-2°	360°	300	0.3/1.0	113	2	PCK-701S
20-40	50	500	+10	0	+/-2°	360°	300	0.4/1.0	113	2	PCK-702S
55-90	50	500	+10	0	+/-2°	360°	300	0.5/2.0	113	2	PCK-704S
80-160	50	500	+10	0	+/-3°	360°	300	1.0/3.0	113	2	PCK-708S
100-200	50	500	+10	0	+/-3°	360°	300	1.0/3.0	113	2	PCK-710S
160-320	50	500	+10	0	+/-4°	360°	300	1.0/4.0	113	2	PCK-716S
225-400	50	500	+10	0	+/-4°	360°	300	2.0/5.0	113	2	PCK-722S
300-500	50	500	+10	0	+/-4°	360°	300	2.0/6.0	113	2	PCK-730S
400-600	50	500	+10	0	+/-5°	360°	300	2.0/6.0	113	2	PCK-740S
700-900	50	500	+10	0	+/-5°	360°	300	2.0/8.0	113	2	PCK-770S
800-1000	50	500	+10	0	+/-5°	360°	300	3.0/10.0	113	2	PCK-780S

NOTE:

- Output polarity is negative on all models.
- Maximum RF input power, 100 mW. Peak IF current, 40mA.

PIN-OUT TABLE

	LO	RF	SINE	COSINE	CASE GND
# 1	14	1	10	3	All Other
# 2	3	1	2	4	All Other

For pin location and package outline drawings, see back pages.