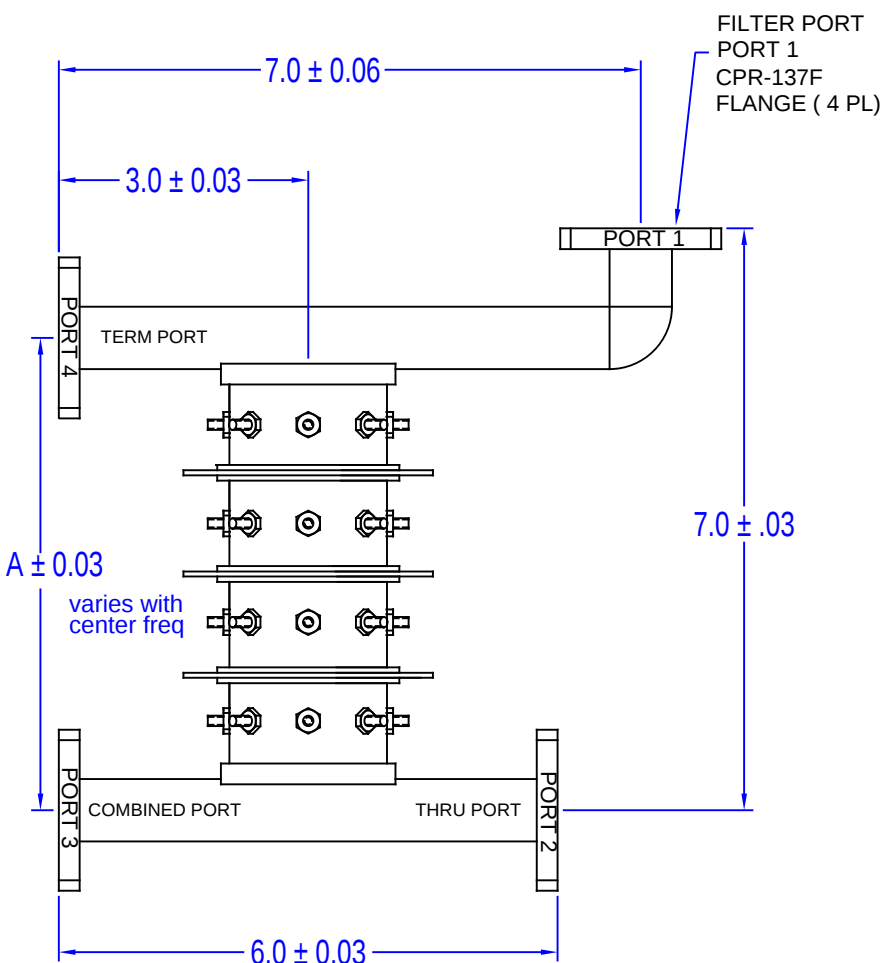
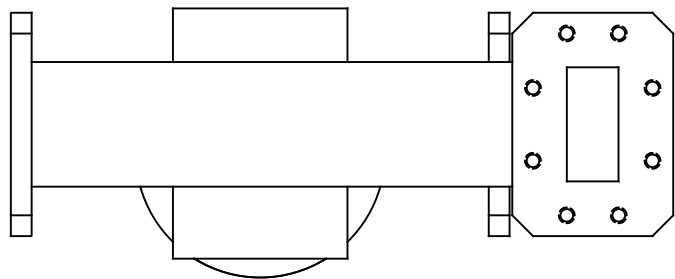




FEATURES

- * EXCELLENT COMBINING EFFICIENCY
- * HIGH POWER HANDLING
- * LOW INSERTION LOSS & VSWR
- * MULTIPLE CHANNEL COMBINING USING TWO OR MORE IN SERIES
- * HIGH ISOLATION BETWEEN CHANNELS

SPECIFICATIONS

FREQUENCY

PORT 1	ANY 36 MHz BAND (5850-6425)
PORT 2	5850 TO 6425 MHz EXCEPT fo $\pm$ 60 MHz

ISOLATION

PORT 1 TO PORT 2	20 dB MIN (fo) $\pm$ 18 MHz (fo determined by customer)
PORT 1 TO PORT 3	40 dB MIN (fo $\pm$ 60 MHz)

INSERTION LOSS

PORT 1 TO PORT 3	0.40 dB MAX @ fo, 0.55 dB MAX @ fo $\pm$ 18 MHz
PORT 2 TO PORT 3	0.1 dB MAX @ fo $\pm$ 80 MHz OR MORE 0.15 dB MAX @ fo $\pm$ 60 MHz

VSWR

Port 1	1.15:1 MAX
Port 2	1.20:1 MAX

GROUP DELAY IN BAND (MAX)

	PORT 1-3	PORT 2-3	
LINEAR	0.1	0.1	ns/MHz
PARABOLIC	0.015	0.002	ns/MHz ²
RIPPLE	0.5	0.25	ns p-p

AMPLITUDE RESPONSE

0.1 dB MAX (WITHIN PASSBAND)

POWER HANDLING

3.5 KW	PORT 1 TO 3
7.5 KW	PORT 2 TO 3

MECHANICAL SPECIFICATIONS

MATERIAL - MATING FLANGES BRASS
FINISH - HIGH TEMPERATURE FLAT BLACK
FLANGES - WR 137 CPR
PRESSURE - 10 PSIG MAX
TOLERANCES - 3 PLACES $\pm$ 0.10
2 PLACES $\pm$ 0.20

Microwave Components and Systems Inc
131 Flanders Road, Westborough MA 01581

DIPLEXER WR-137

SIZE	DRAWING NO.	REV
C	2200-0000	-
FILE:DIP1	12/13/99	