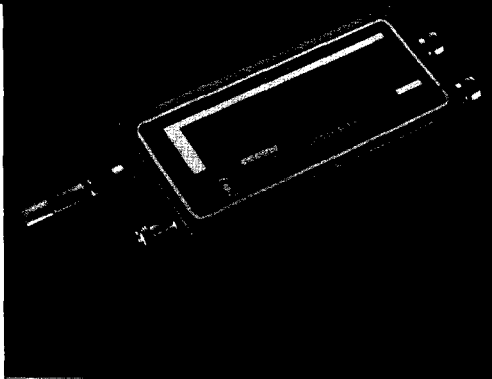


HIGH POWER

Octave band directional



7800 Series



FEATURES

- Octave band coverage from 63 MHz to 2 GHz
- Simple & reliable
- Handle full type N coax power
- Low loss

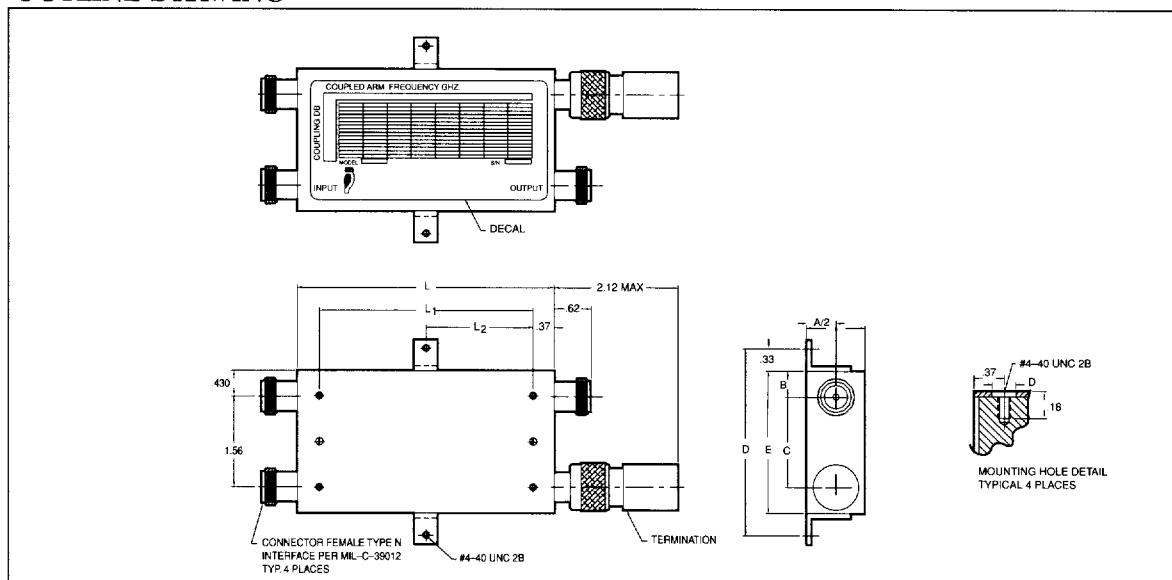
SPECIFICATIONS

Frequency ranges	250 to 500 MHz (model 7800) 63 to 125 MHz (model 7801) 125 to 250 MHz (model 7802) 210 to 420 MHz (model 7803) 500 to 1000 MHz (model 7810) 1000 to 2000 MHz (model 7820)
Coupling	20 ± 1 dB or 30 ± 1 dB
Directivity, min	20 dB
Insertion loss, max	0.1 dB excluding coupling loss
VSWR, max	1.25
Termination power	5 watts
Main line input power	1 kW at 1 GHz

NOTES:

1. Standard-higher power terminations can be supplied or substituted by the customer.
2. Other octave bands optionally available within the range of 63 to 2000 MHz.

OUTLINE DRAWING



Model Numbers	Dimensions (See Drawing)						Weights	
	L"	L (cm)	L ₁ "	L ₁ (cm)	C"	C (cm)	Ounces	Grams
7800-20	8.94	(22,7)	8.20	(20,83)	1.07	(2,72)	28	794
7801-20	31.56	(80,16)	30.82	(78,28)	1.06	(2,69)	89	2523
7802-20	16.56	(42,06)	15.82	(40,18)	1.06	(2,69)	47	1332
7803-20	10.44	(26,52)	9.70	(24,64)	1.06	(2,69)	31	879
7810-20	5.34	(13,56)	4.60	(11,68)	1.10	(2,79)	21	595
7820-20	3.36	(8,53)	2.61	(6,64)	1.14	(2,90)	14	397
7800-30	9.23	(23,44)	8.49	(21,56)	1.10	(2,79)	24	680
7801-30	31.56	(80,16)	30.82	(78,28)	1.10	(2,79)	82	2325
7802-30	16.56	(42,06)	15.82	(40,18)	1.10	(2,79)	44	1247
7803-30	10.72	(27,23)	9.99	(25,36)	1.10	(2,79)	28	794
7810-30	5.39	(13,69)	4.65	(11,81)	1.10	(2,79)	14	397
7820-30	3.42	(8,69)	2.68	(6,81)	1.15	(2,92)	9	55

Notes:

Dimension A is 1.27" (3,23 cm) for -20 model
 Dimension A is 1.00" (2,54 cm) for -30 model
 Dimension B is .66" (1,68 cm) for -20 model
 Dimension B is .44" (1,12 cm) for -30 model
 Dimension D is 3.08" (7,82 cm) for -20 model
 Dimension D is 2.77" (6,87 cm) for -30 model
 Dimension E is 2.42" (6,15 cm) for -20 model
 Dimension E is 2.00" (5,08 cm) for -30 model
 Dimension L₂ is 15.41" (39,141 cm) for 7801 only, others have no tab.

Power Handling Notes

The 7800 Series couplers operate reliably to the full power handling capability of type N systems. The isolated port termination shown is a standard five-watt type N part. This can easily be replaced with a higher power termination if your system requires it.