

1 WR58M111X1

REVISIONS				
EDN	LTR	DESCRIPTION	DATE	APPROVED

FOR ACCESS TO KNOB REMOVE 2 CAPTIVE SCREWS

SECTION VIEW OF CAP W/VIEWING WINDOW

FLANGE MTG. HOLES 6-32 UNC-28 X .21 (5.53) DP. MIN. TYP. ALL PORTS

1.375 TYP. (34.92)

1.875 TYP. (147.62)

4 MTG. HOLES 8-32 UNC-28 X .31 (7.87) DP. MIN.

1.44 DIA

PORT 4

PORT 3

PORT 2

PORT 1

CONNECTOR MS3112E-14-12P

.75 DIA. KNOB (19.05)

2.68 (68.07)

.38 (9.65)

3.86 MAX. (98.04)

.827 (22.22)

RF SPECIFICATIONS:

RF	C-BAND	X-BAND	Ku-BAND
FREQ.	5.85 TO 6.425	7.90 TO 8.40	14.00 TO 14.50
VSWR MAX	1.15:1	1.15:1	1.15:1
INSERTION LOSS	0.10 db	0.20 db	0.10 db
ISOLATION MIN.	70 db	70 db	70 db
POWER MAX	1.0 KW	1.0 KW	1.0 KW

ELECTRICAL:

VOLTAGE 115 VAC, 50/60 Hz. + OR - 10%

CURRENT 0.75 AMP MAX. @ 20 DEG. C

SWITCHING TIME 100 MILLISECONDS

MECHANICAL:

MATERIAL ALUMINUM (RF ASSY.)

DRIVE REMOVABLE MOTOR DRIVE

PRESSURE 10 PSIG (RF HEAD ONLY)

FINISH IRIDIUM PER MIL-C-5541

LIFE PAINT DULL BLACK ENAMEL 1,000,000 CYCLES

ENVIRONMENTAL:

TEMPERATURE OPERATIVE -40C TO +85C

NON-OPERATIVE -55C TO +100C

HUMIDITY WEATHERIZED

TOLERANCES		MODEL #	DATE	DESIGNER
DECIMAL	FRACTIONS	LWR580BUL1X1	7/27/93	J.T.
PLACE: .010	1/64	CHECKED	9/8/93	S.H.
PLACE: .010	1/64	APPROVED		
PLACE: .010	1/64	APPROVED		

WAVEGUIDE SWITCH, WRD 580, SPDT, XFR. CHOKE, LATCHING, 115 VAC KNOB

SCALE UNIT WT SHEET OF

B 09080 B 9854-1 REV.

MWT58M11F0R3

REVISIONS				
EDN	LTR	DESCRIPTION	DATE	APPROVED

COVER W/VIEWING WINDOW

FLANGE MTG. HOLES 6-32 UNC-28 X .21 (5.53) DP. MIN. TYP. ALL PORTS

1.375 TYP. (34.92)

1.875 TYP. (147.62)

1.50 DIA (38.1)

PORT 3

PORT 2

PORT 1

CONNECTOR MS3112E-12-10P

REMOVE 2 CAPTIVE SCREWS FOR ACCESS TO KNOB

2.68 (68.07)

.50 (12.7)

3.940 (100.08)

.875 (22.22)

RF SPECIFICATIONS:

RF	C-BAND	X-BAND	Ku-BAND	BROAD BAND
FREQUENCY GHz	5.8 - 6.4	7.9 - 8.4	14.0-14.5	5.8 - 16.0
VSWR MAX	1.18 : 1	1.18 : 1	1.15 : 1	1.18 : 1
INSERTION LOSS	0.20 db	0.25 db	0.20 db	0.20 db
ISOLATION MIN.	70 db	70 db	60 db	70 db
POWER MAX		9.0 KW CW		

ELECTRICAL:

VOLTAGE 28 VDC ± 10%

CURRENT 1.00 AMP MAX. @ 20° C

SWITCHING TIME 100 MILLISECONDS

MECHANICAL:

MATERIAL ALUMINUM (RF ASSY.)

DRIVE REMOVABLE MOTOR DRIVE

PRESSURE 10 PSIG (RF HEAD ONLY)

FINISH IRIDIUM PER MIL-C-5541

LIFE PAINT DULL BLACK ENAMEL 1,000,000 CYCLES

ENVIRONMENTAL:

TEMPERATURE OPERATIVE -40°C TO +85°C

NON-OPERATIVE -55°C TO +100°C

HUMIDITY 0 - 95% NO CONDENSATION

TOLERANCES		MODEL #	DATE	DESIGNER
DECIMAL	FRACTIONS	MWT580AUF9B3	8/10/95	L.L.
PLACE: .010	1/64	CHECKED	8/10/95	M.R.
PLACE: .010	1/64	APPROVED		
PLACE: .010	1/64	APPROVED		

WAVEGUIDE SWITCH, WRD 580 SPDT, COVER, FAILSAFE, WEATHERIZED CAP

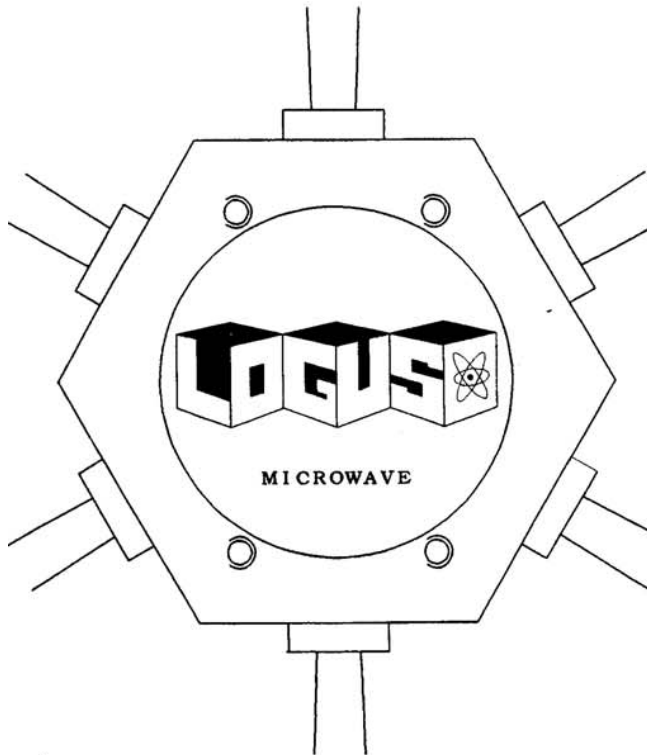
SCALE UNIT WT SHEET OF

B 09080 B 9815-1 REV.

NOTES:

- ACTIVE HIGH LOGIC SWITCH COMMAND MUST BE MAINTAINED TO KEEP SWITCH IN ENERGIZED POSITION.
- MAXIMUM SWITCHING RATE NOT TO EXCEED 30 PER MINUTE.
- SUPPLY TO PIN D: TTL LOGIC LEVEL HIGH: 2.4 TO 5.5 VDC LOW: 0 TO 0.8 VDC TTL LOGIC CURRENT HIGH: 5.0 MA MAX @ 3.9 VDC LOW: 0 MA

WIDE-BAND TO TRI-BAND FILTER SWITCH



INPUT : WRD580 5.85 - 16.0 GHz Unfiltered

OUTPUTS : WR75 14.0 - 14.5 GHz Filtered
 WR112 7.9 - 8.4 GHz Filtered
 WR137 5.8 - 6.4 GHz Filtered

SWITCH-OVER TIME : 150 ms (max).

New product accepts wide-band WRD580 input and provides complete electro-mechanical switchover to one of three standard rectangular outputs.

This complete solution includes the switch, transitions, HP Load harmonic filtering, receive reject filtering and circulator protection in one compact Rack mounted package.

OPTIONS INCLUDE :

- Dual Configuration - 2 Inputs to 6 Outputs
- TTL SwitchControl - Remote operation via TTL Driver
- Custom Frequency - User specified Freq. & Waveguide sizes upon request
- Combiner Modules - Used with Logus combiners can give Expanded configuration control and phase power combining capabilities.

Call, Fax, or Write for Details !!!!!



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