

DESCRIPTION:

AMC MODEL SFB-2DR-10F-AA870 IS A TWO CHANNEL SWITCHED FILTER BANK WITH INTEGRAL TTL DRIVER AND INSERTION LOSS FAULT DETECTION CIRCUITRY USING STATE OF THE ART HYBRID MIC/MMIC TECHNOLOGY FOR RUGGED ENVIRONMENTAL CONDITIONS

SPECIFICATIONS:

- THE UNIT IS BUILD WITH 2 SPDT SWITCHES AND BANDPASS FILTERS
- FREQUENCY RANGE: 10.1 GHz - 11.1 GHz
- INSERTION LOSS: 4dB MAX. ALL CHANNELS
- CHANNEL INSERTION LOSS RIPPLE: 0.5dB MAX. PEAK TO PEAK
- CHANNEL INSERTION LOSS SLOPE: 0.1 dB/10 MHz MAX.
- CHANNEL SPECIFICATIONS: 1 dB FREQ. BW

	F LOW GHz	F HIGH GHz	Fo GHz
CHANNEL 1	10.1 GHz	10.6 GHz	10.35 GHz
CHANNEL 2	10.6 GHz	11.1 GHz	10.85 GHz

REJECTION	
Rejection -70dB	Rejection -45dB
0.5 to 6 GHz	(Fo + 450)
0.5 to 6 GHz	10.8 GHz
0.5 to 6 GHz	11.3 GHz

- VSWR: 1.5:1 GOAL, 1.75:1 TYP., 2.0:1 MAX.
- SWITCHING SPEED: 1us MAX.
- CONTROL: TTL Compatible
- RF POWER RATING: +21 dBm CW MAX.
- POWER SUPPLY: +5v @ 150ma max.
-12v @ 80ma max.
- BITE: TTL COMPATIBLE OUTPUT SHALL BE LOW UNDER NORMAL OPERATING CONDITION, AND SHALL BE HIGH WHEN ONE OR BOTH CHANNELS FAIL
- CONNECTOR: SMA FEMALE
- PAINT: BLACK ENAMEL
- SIZE: 4.37"(110.90mm) (L) x 1.97"(50.00mm) (W) x 1.00"(25.40mm) (H)
- WEIGHT: 13 OUNCES MAXIMUM

PIN OUT TABLE J4	
PIN	TO
1	N/C
2	N/C
3	-12v
4	-12v RETURN
5	+5v
6	+5v RETURN
7	N/C
8	BITE Output
9	BITE Output Return

LOGIC TABLE	
	INPUTS
	CONTROL
CHANNEL 1	0
CHANNEL 2	1

FAILURE BITE	
	OUTPUTS
OPERATIONAL	0
FAILURE	1

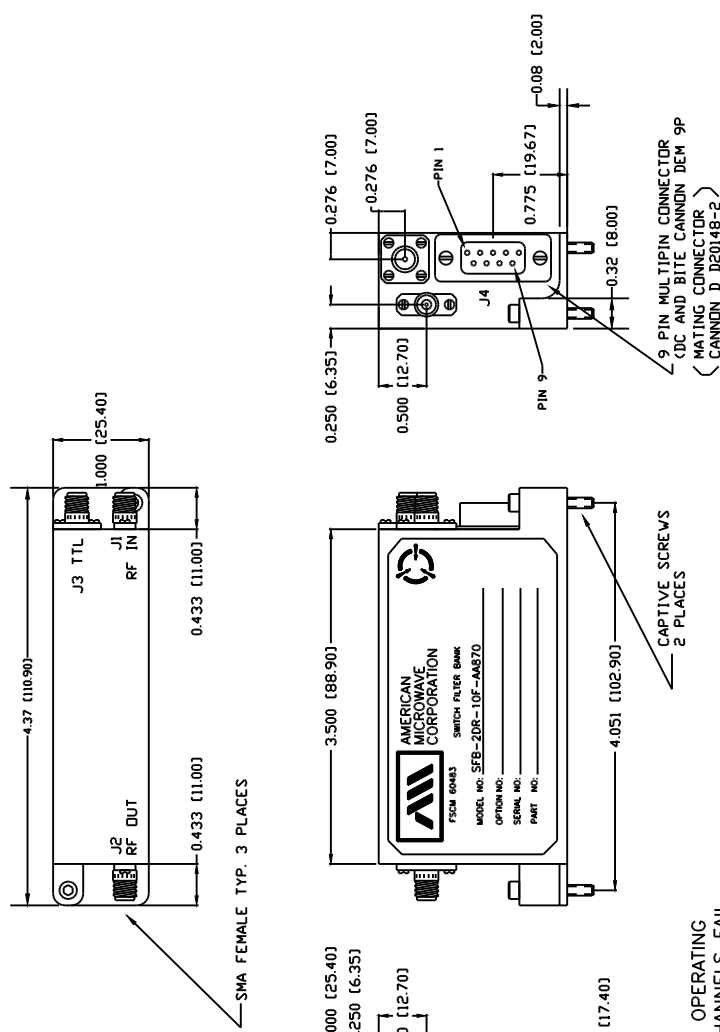
ENVIRONMENTAL RATINGS:

- TEMPERATURE: -0°C TO +70°C (OPERATING)
-55°C TO +71°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B WITH 95% RH @ Tg>+50°C INCLUDING CONDENSATION
- SHOCK: MIL-STD-202F, METHOD 213 COND. A
- VIBRATION: MIL-STD-202F, METHOD 204 COND. C
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- SALT FOG: MIL-STD-202F, METHOD 107D COND. A
- FUNGUS: MIL-STD-810C, METHOD 508.2
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107

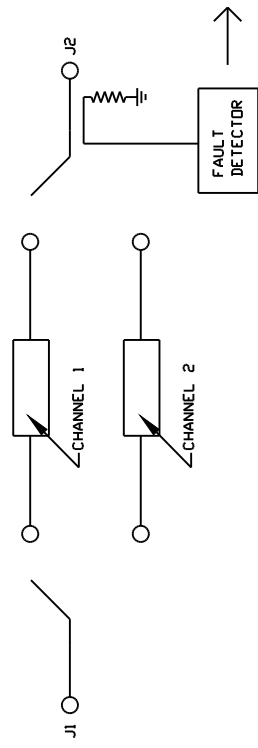
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	8/20/99	



BLOCK DIAGRAM



PART NO.		APPROVALS		DATE
DRAWN		F HOYDS		8/20/99
CHECKED				
ISSUED				
SIZE	A	FSCM NO.	60483	DWG NO.
SCALE	N/A			100-5086
SHEET				1 OF 2

AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		PRODUCT FEATURE	
TITLE		SFB-2DR-10F-AA870	
REV.		-	