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REVISIONS			DOC. NO. SPC-F004 * Effective: 12/21/98 * DCP No: 680					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1190	A	Released	JWM	6/7/02	HYO	6/10/02	JC	6/10/02



## One Year Limited Warranty



Functions	
Waveforms	Sine, Square, Triangle, TTL
Sine Distortion	0.2Hz to 200kHz <1%; 200kHz to 2MHz. All harmonics >30dB below fundamental
Triangle Linearity	>99% to 200kHz
Square Rise Time	<80ns
Square Mark/Space Ratio	1:1 ± 1% to 200kHz
TTL	20 standard TTL loads
Symmetry Range	Nom. 8:1 on all waveform types
Frequency	
Range	<0.2Hz to >2MHz in 7 overlapping ranges
Accuracy	<±0.1 % determined by frequency counter
Outputs	
50W and 600W	0dB, -20dB, -40dB switchable attenuator with >30dB vernier control
Output Level (open circuit)	0 to 20Vp/p 0dB; 0 to 2Vp/p -20dB; 0 to 0.2Vp/p -40dB
Level Flatness	± 0.2dB to 200kHz; ± 1 dB to 2MHz
DC Offset	±10V from both outputs. DC offset plus peak signal limited to ±20Vp/p with open circuit output. Offset level and signal attenuated proportionally in -20dB and -40dB positions
TTL	Capable of driving 20 standard TTL loads
Sweep Input	
Sweep Range	>1000:1, 1K, 10k, 100k, 1M ranges; >100:1 100Hz range; 20:1 10Hz, 1Hz ranges; >2000:1 with reduced linearity and distortion to 40MHz
Input Impedance	nom. 9kΩ
Input Sensitivity	10:1 sweep =17.1Vp/p; 100:1 sweep =18.8Vp/p; 1000:1 sweep =19Vp/p; 2000:1 sweep =19.1Vp/p
Sweep linearity	<±1%
Max. Input Voltage	± 50V
Max. Input Slew Rate	0.1V/us

Frequency Counter	
Internal	
Measurement Type	Reciprocal, single cycle, and multiple period average
Gate	Automatic, 1 s or 1 period, whichever greater
Accuracy	±0.01%
Stability	50ppm -10°C to 50°C
Resolution	4 digits
Annunciators	mHz; Hz; kHz; MHz
Display	4 digit, 7 segment, 0.56" LED
External	
Input Impedance	1 MΩ AC coupled, -3dB @ 5Hz
Max. Input	100VDC, 250VAC, 50Hz, derating with frequency
Sensitivity	25mV <10MHz; 50mV <25MHz. AC RMS Sinewave
Max. Frequency	>20MHz
General	
Power Requirement	220/240V, 110V (set internally), 50/60Hz AC
Power Consumption	Typ. 25VA
Operating Temp. Range	0°C to 40°C (10%) \ to 80% RH non-condensing)
Supplied Accessories	Instruction Manual, Mains Lead, Spare Fuse
Optional Accessories	Service Manual
Size	219 x 240 x 98mm
Weight	2.0kg (product only)

SPC-F004.DWG

DISCLAIMER:  
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Jeff McVicker	6/7/02
CHECKED BY:	DATE:
Hisham Odish	6/10/02
APPROVED BY:	DATE:
John Cole	6/10/02

DRAWING TITLE:  
**2MHz Function Generator w/20MHz Frequency Counter**

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	72-6858	19C7728.dwg	A
SCALE:	NTS	U.O.M.: Millimeters	SHEET: 1 OF 1