

SGC Technologies, Inc.

PRODUCT SPECIFICATION FOR INFORMATION

PRODUCT NAME: SBP-4R3C TYPE

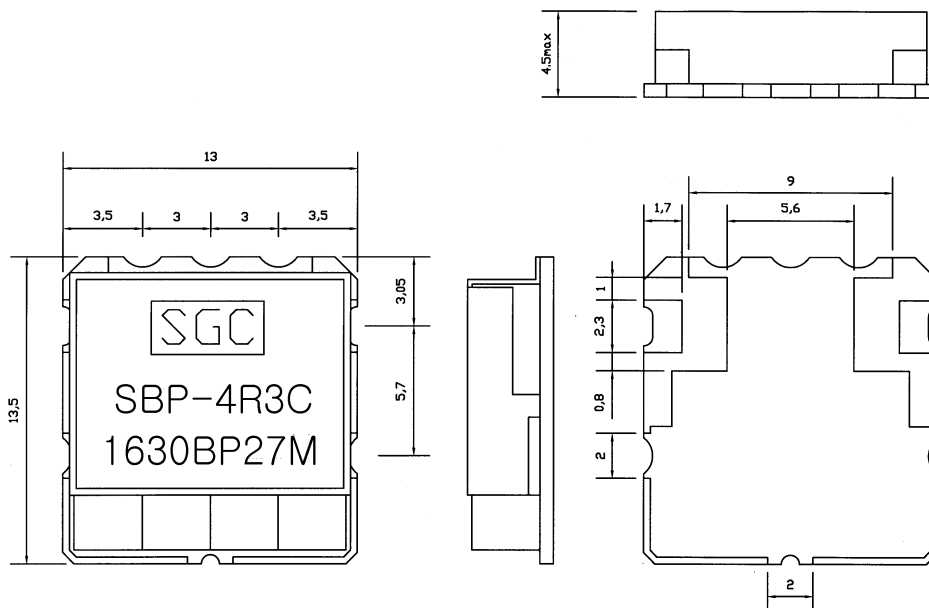
PART NO: SBP-4R3C-1630BP27M

Center frequency	1630MHz
Pole	6
Band width (BW)	$F_o \pm 13.5\text{MHz}$
Insertion Loss @ F_o	4.0 dB max
VSWR in BW	1.5 max
Ripple in BW	1.2 dB max
Attenuation	10 dBc min @ $F_o \pm 28\text{MHz}$ 28 dBc min @ $F_o \pm 50\text{MHz}$ 60 dBc min @ $F_o + 140\text{MHz}$ & $F_o + 260\text{MHz}$ 35 dBc min @ $F_o + 1770\text{MHz}$ & $F_o + 1910\text{MHz}$
Group Delay Variation	10ns max
Operating Temp	-40°C to +85°
In/Out Impedance	50 ohm

NOTE:

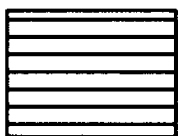
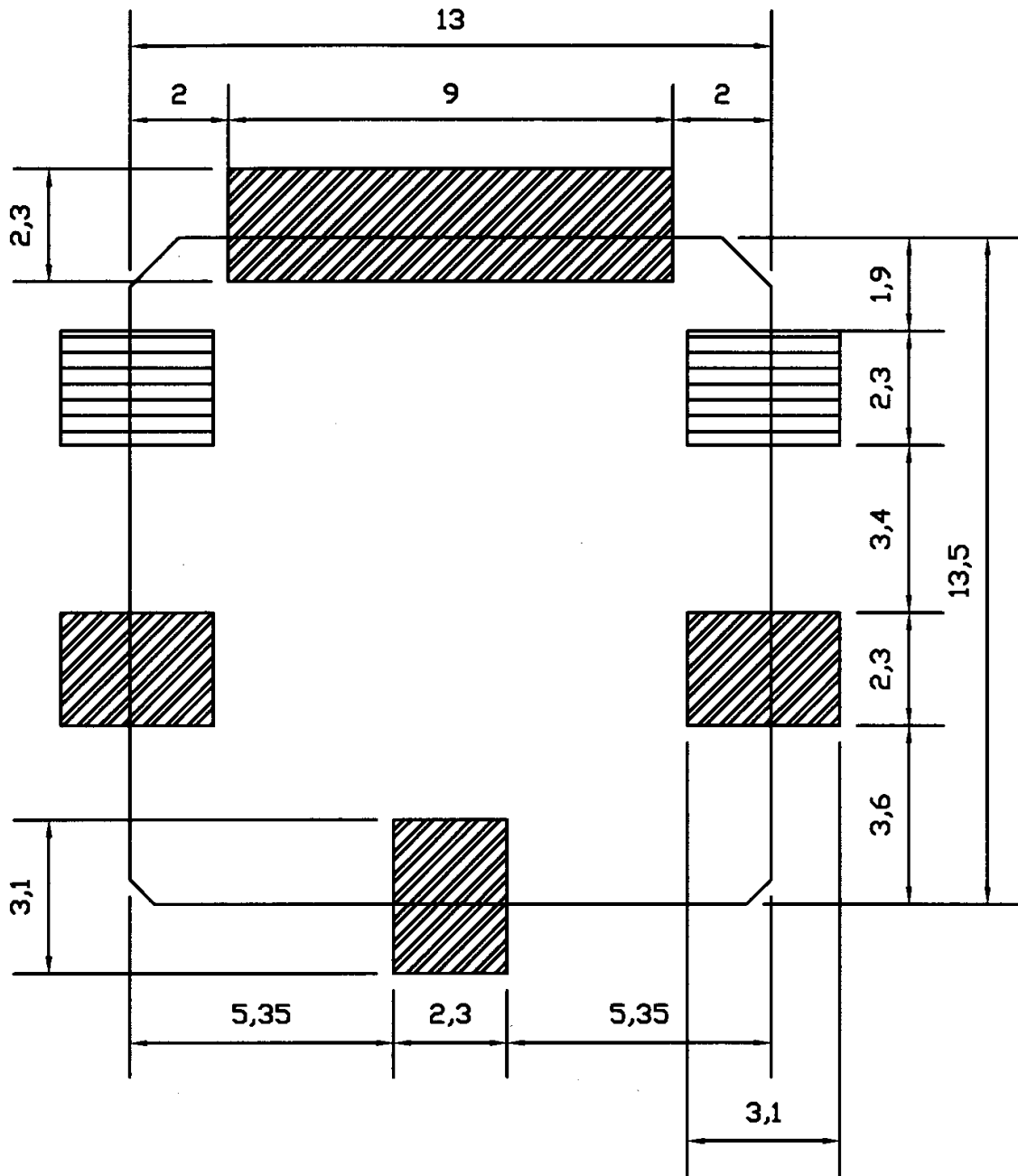
EQUIPMENT used :HP 8753E

DIMENSION:

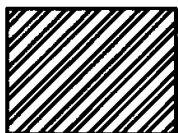


UNIT:mm TOLERANCE:±0.3

SOLDER PAD



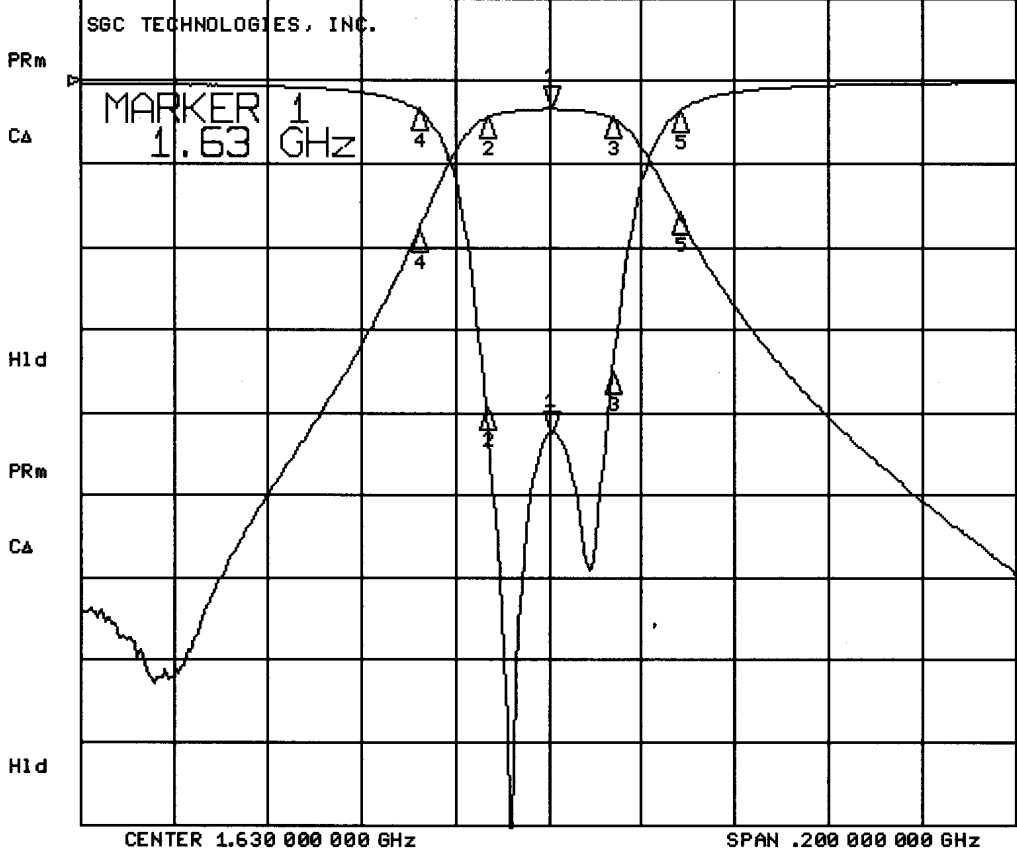
IN/OUT



GROUND

SBP-4R3C-1630BP25C (1)

CH1 S11 LOG 5 dB/REF 0 dB 1:-21.243 dB 1.630 000 000 GHz
CH2 S21 LOG 10 dB/REF 0 dB 1:-3.3970 dB



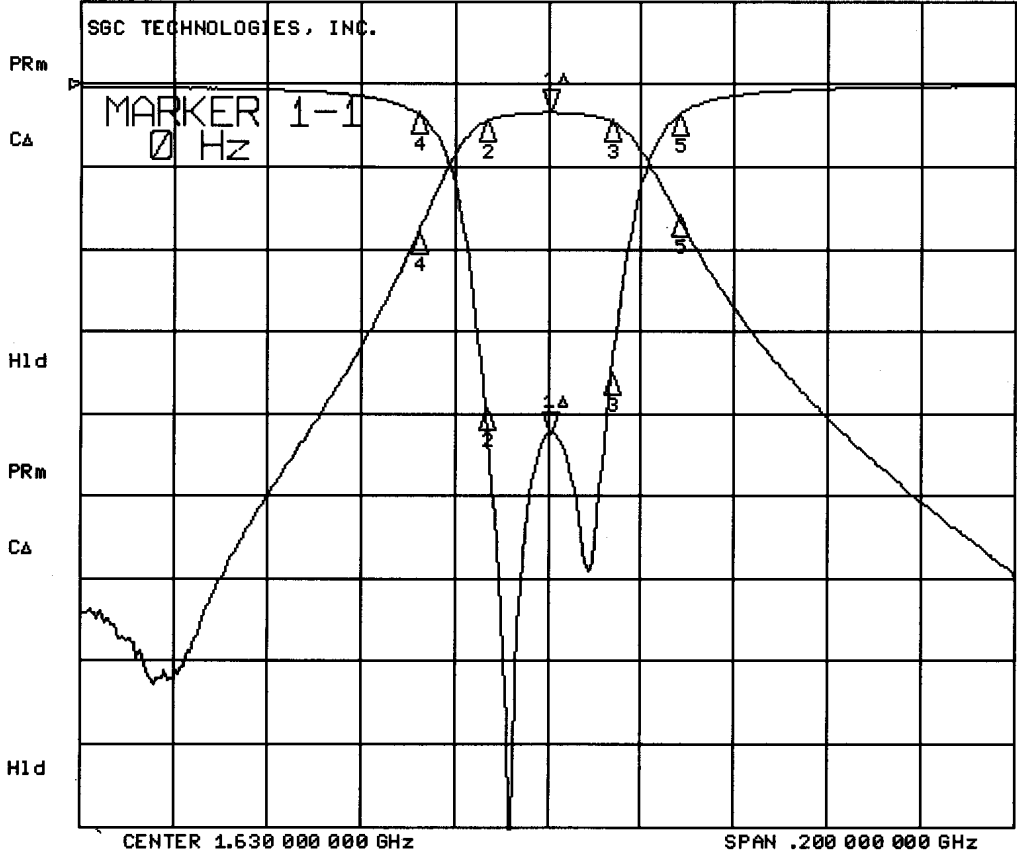
CH1 Markers

- 2:-19.739 dB
1.61650 GHz
- 3:-17.622 dB
1.64350 GHz
- 4:-1.7800 dB
1.60200 GHz
- 5:-1.8380 dB
1.65800 GHz

CH2 Markers

- 2:-4.4890 dB
1.61650 GHz
- 3:-4.4760 dB
1.64350 GHz
- 4:-18.134 dB
1.60200 GHz
- 5:-16.128 dB
1.65800 GHz

CH1 S11 LOG 5 dB/REF 0 dB 1: 0.0000 dB 0.000 000 000 GHz
CH2 S21 LOG 10 dB/REF 0 dB 1: 0.0000 dB



CH1 Markers

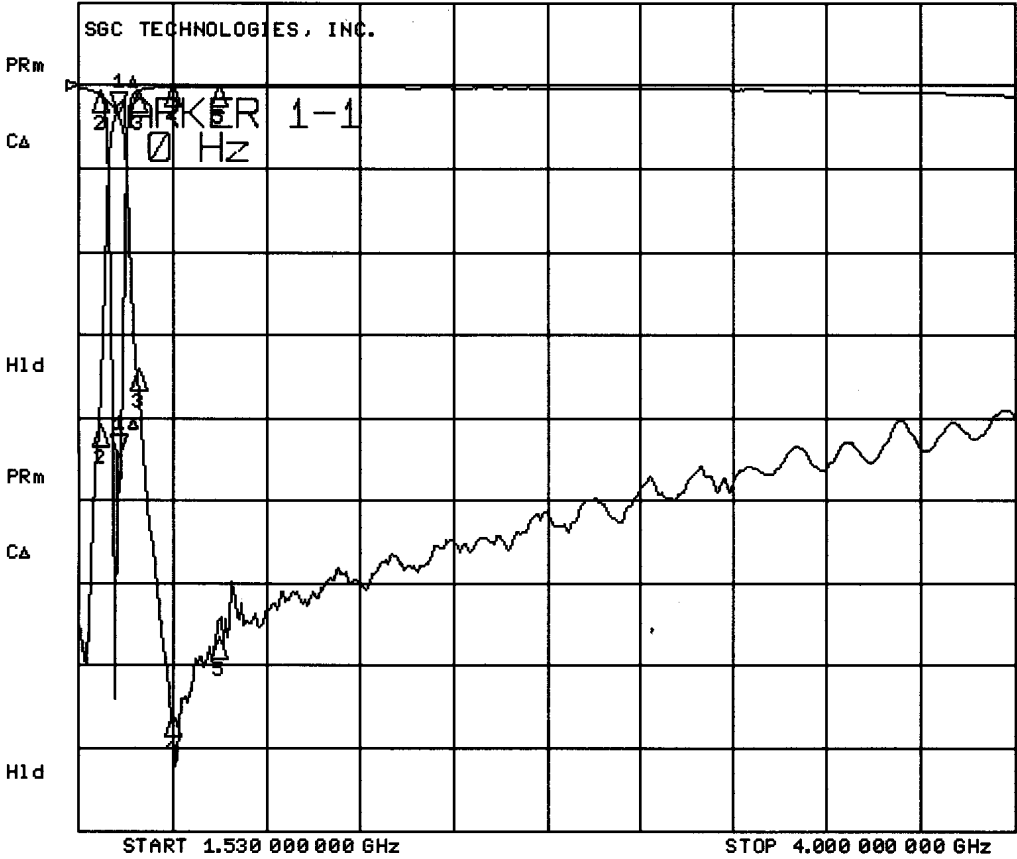
- Δ REF = 1
- 2: 1.5040 dB
-13.5000 MHz
- 3: 3.6210 dB
13.5000 MHz
- 4: 19.463 dB
-28.0000 MHz
- 5: 19.404 dB
28.0000 MHz

CH2 Markers

- 2:-1.0920 dB
-13.5000 MHz
- 3:-1.0790 dB
13.5000 MHz
- 4:-14.737 dB
-28.0000 MHz
- 5:-12.731 dB
28.0000 MHz

SBP-4R3C-1630BP25C (2)

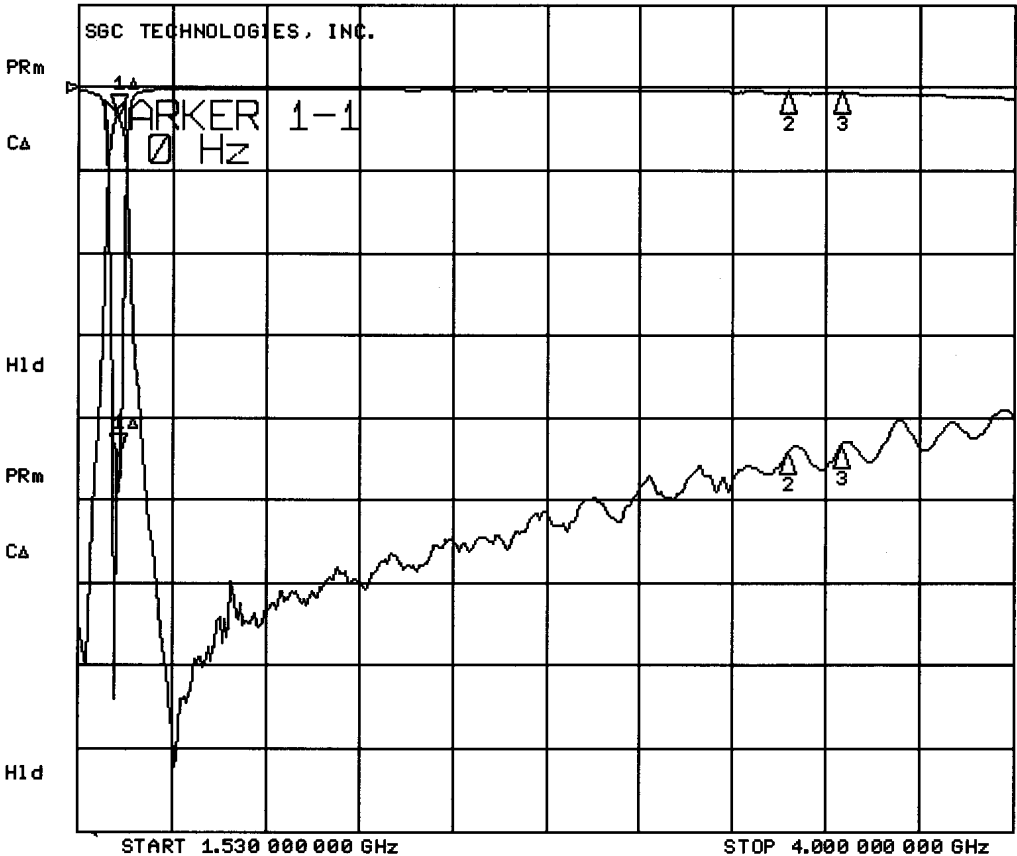
CH1 S11 LOG 5 dB/REF 0 dB 1: 0.0000 dB 0.000 000 000 GHz
 CH2 S21 LOG 10 dB/REF 0 dB 1: 0.0000 dB



CH1 Markers
 ΔREF=1
 2: 21.864 dB
 -50.0000 MHz
 3: 21.927 dB
 50.0000 MHz
 4: 22.247 dB
 140.000 MHz
 5: 22.282 dB
 260.000 MHz

CH2 Markers
 2: -37.381 dB
 -50.0000 MHz
 3: -30.821 dB
 50.0000 MHz
 4: -72.667 dB
 140.000 MHz
 5: -63.261 dB
 260.000 MHz

CH1 S11 LOG 5 dB/REF 0 dB 1: 0.0000 dB 0.000 000 000 GHz
 CH2 S21 LOG 10 dB/REF 0 dB 1: 0.0000 dB



CH1 Markers
 ΔREF=1
 2: 22.019 dB
 1.77000 GHz
 3: 21.990 dB
 1.91000 GHz

CH2 Markers
 2: -40.876 dB
 1.77000 GHz
 3: -40.156 dB
 1.91000 GHz