

Product Information

Control No. : ARP-482700-H 1

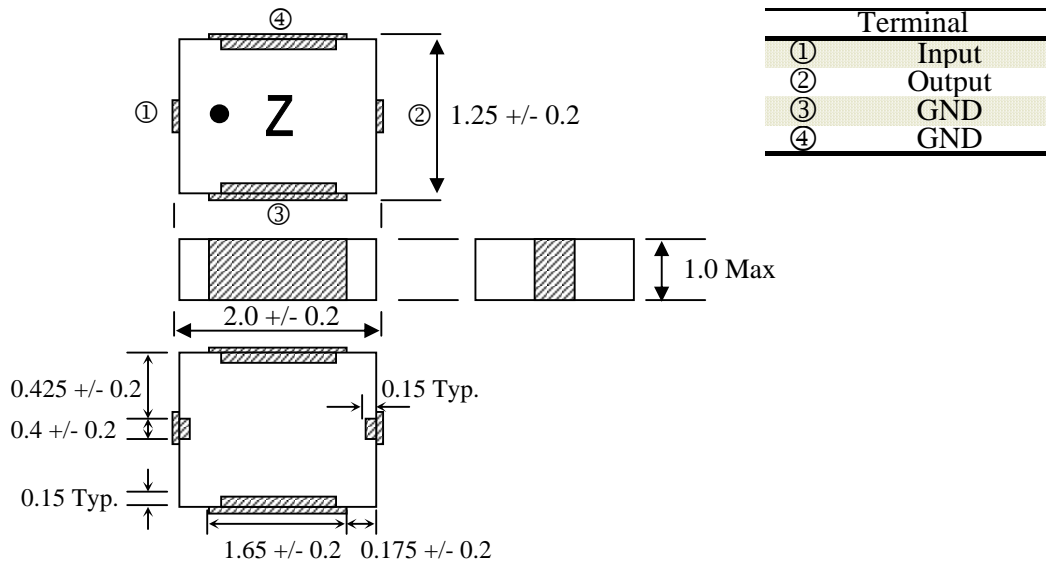
Issued on April 14, 2009

Application : 5.81GHz BPF for ETC

1. Type No.
MDR827K - T

RoHS Compliant Parts & Lead Free

2. Dimension (Unit : mm)



3. Electrical characteristics

Pass band	Specification	Typical	Unit	Remark
fc (Center frequency)	5810	-	MHz	
Pass band frequency	5770-5850	-	MHz	
Nominal impedance	50	-	ohm	
Insertion Loss at 25degC.	1.5 Max.	0.80	dB	
Insertion Loss at -40 to +85degC.	1.7 Max.	-	dB	
VSWR in BW	2.0 Max.	1.20	-	
Ripple	0.8 Max.	0.06	dB	

Attenuation	Specification	Typical	Unit	Remark
1300 MHz	30 Min.	51.18	dB	
1450 MHz - 1501 MHz	30 Min.	47.30	dB	
1890 MHz - 1980 MHz	30 Min.	40.96	dB	
2400 MHz - 2500 MHz	30 Min.	37.11	dB	
2885 MHz - 2925 MHz	20 Min.	34.82	dB	
8715 MHz - 8775 MHz	27 Min.	30.69	dB	
11620 MHz - 11700 MHz	30 Min.	35.27	dB	
14525 MHz - 14625 MHz	15 Min.	39.27	dB	

4. Note

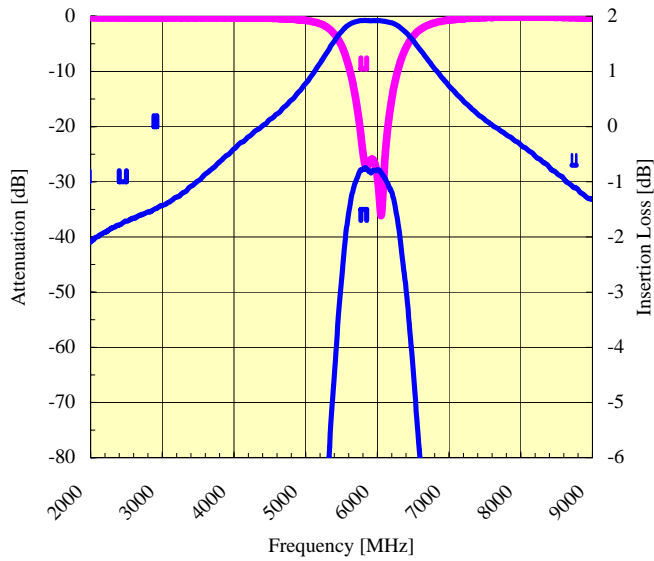
- | | |
|--|---------------------------------|
| 4.1 Operating Temperature Range | : -40 to +85 deg.C |
| 4.2 Storage Temperature Range before soldering in taping package | : -20 to +35 deg.C |
| 4.3 Minimum Ordering Quantity | : 2,000 pcs (per reel, per bag) |

	Approved by	Confirmed by	Raised by
	T.Hirai	T.Haketa	M.Urano

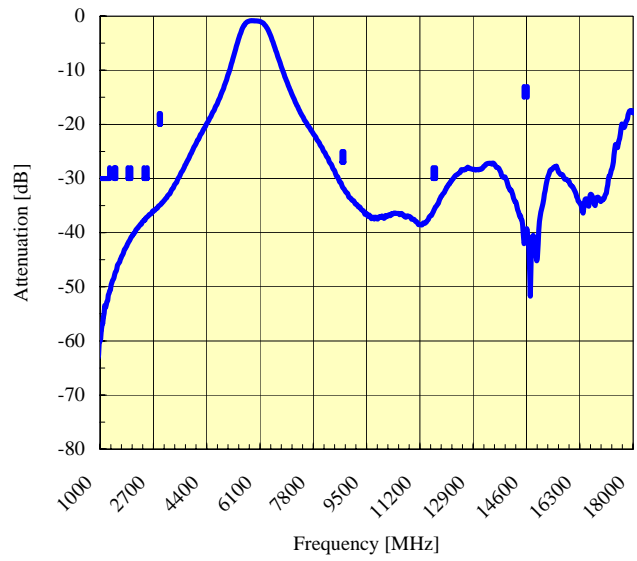
SOSHIN ELECTRIC CO., LTD

5.Representative characteristics

Pass Band Frequency Response

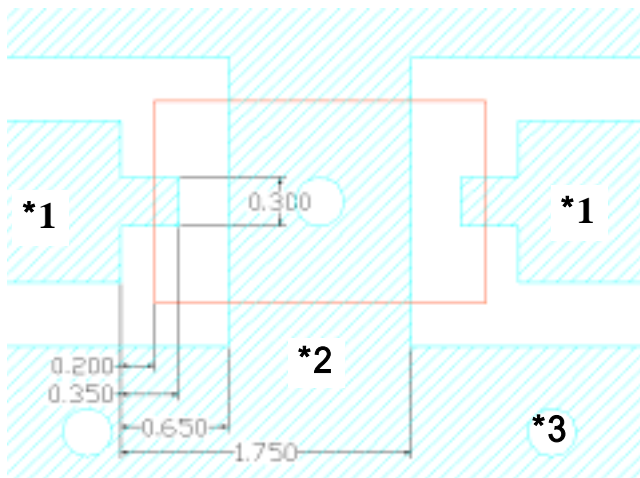


Broad Band Frequency Response



6.Recommendation Land Pattern (Unit:mm)

Land Pattern



Unit : mm

Terminal
Input
Output

- *1 50 Ohm Impedance Line
- *2 Ground Plane
- *3 Through Hole

Resist Pattern

