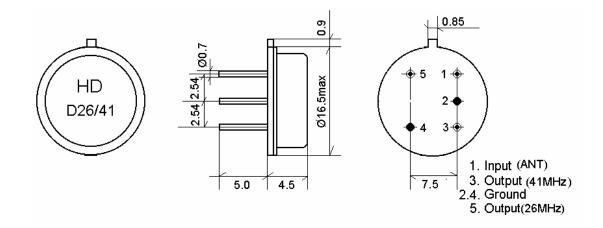
1.SCOPE

This specification shall cover the characteristics of SAW Duplexer used for the cordless phone.

2.Construction

2.1 Dimension and materials Manufacturer's name : SHOULDER ELECTRONICS LTD. Type : D26/41



3.Characteristics

Standard atmospheric conditions

Unless otherwise specified, the standard rang of atmospheric conditions for making measurements and tests is as follows;

Ambient temperature	: 15 to 35
Relative humidity	: 25% to 85%
Air pressure	: 86kPa to 106kPa

Operating temperature rang

Operating temperature rang is the rang of ambient temperatures in which the filter can be

operated continuously. $-10 \sim +50$

Storage temperature rang

Storage temperature rang is the rang of ambient temperatures at which the filter can be stored

without damage.

Conditions are as specified elsewhere in these specifications. $-40 \sim +70$

<u>Reference temperature</u> +25

3.1 Maximum Rating

DC voltage	V _{DC}	0	V	
Source power	Ps	15	dBm	

3.2 Electrical Characteristics

Characteristics of channel 26:

Source imp	edance	Zs=5	0			
Load imped	lance	$Z_L=50$	0		$T_A = 2$	25
Iten	1	Freq	min	typ	max	
Nominal fr	equency	f_N	-	26.40	-	MHz
Insertion attenuation 26.3125~26.4875MHz			6.0	8.0	dB	
	20.00~	23.50MHz	30.0	35.0		dB
attenuation	41.3125~	41.4875MHz	40.0	47.0		dB
	41.4875	~80.00MHz	30.0	35.0		dB
Temperature coefficient			-72		ppm/k	

Characteristics of channel 41:

Source imp	edance	Zs=5	0			
Load imped	lance	$Z_L=5$	0		$T_A = 2$	25
Iten	1	Freq	min	typ	max	
Nominal fr	equency	f_N	-	41.40	-	MHz
Insertion attenuation 41.3125~41.4875MHz			4.0	5.0	dB	
	20.00~2	6.3125MHz	30.0	35.0		dB
attenuation	attenuation 26.3125~26.4875MHz		40.0	47.0		dB
	44.50~	80.00MHz	30.0	35.0		dB
Temperature coefficient			-72		ppm/k	

Isolation between 26 and 41:

Source imp	bedance Zs=:	50			
Load imped	dance $Z_L = 3$	50		$T_A = 2$	25
Item	Freq	min	typ	max	
attenuation	26.3125~26.4875MHz	40.0	48.0		dB
attenuation	41.3125~41.4875MHz	38.0	44.0		dB

3.3 Environmental Performance Characteristics

Item Test condition	Allowable change of absolute Level at center frequency(dB)
High temperature test 70 16H,	< 1.0
Low temperature test	< 1.0

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-25 2H	
Humidity test	< 1.0
40 90-95% 100H	< 1.0
Thermal cycle	
-25 ==70 3cycle	< 1.0
30min. 5min. 30min.	
Solder temperature test	< 1.0
Sold temp.260 for 10 sec.	< 1.0
Soldering	More then 95% of total
Immerse the pins melt solder	area of the pins should
At 260 +5/-0 for 5 sec.	be covered with solder

3.4 Mechanical Test

Item Test condition	Allowable change of absolute Level at center frequency(dB)
Vibration test Frequency 10~55Hz amplitude 1.5mm 3 directions 2 H each	<1.0
Drop test On maple plate frome 1 m high 3 times	<1.0
Lead pull test Pull with 1 kg force for 30 seconds	<1.0
Lead bend test 90° bending with 500g weigh 2 times	<1.0

3.5 Voltage Discharge Test

