

CERAMIC FILTER

- S-LT10.7M / FM receiver
- S-LT10.7M-A10 / Low loss
- S-LT10.7M-W / Wide/Narrow band
- S-LTCA/CV10.7M / SMD
- S-LTMB / Leaded /TV, VCR stage
- S-LTS / Leaded / TV, VCR stage / Low spurious
- S-LTT / Leaded / TV, VCR stage / High selectivity
- S-LT455_U & S-LT450_U / S-LT455_W & S-LT450_W / Communication
- S-LTM455_U & S-LTM450_U / S-LTM455_W & S-LTM450_W / Communication
- S-LZU450 / IF signal detection
- S-LT465A / Radio cassette recorder
- S-LT450_470 / Miniature type
- S-LTP450_470 / For AM
- S-LTZ450_470 / For AM, Direct coupling type

FILTER

S-LT10.7M

LEADED TYPE
FM receiver



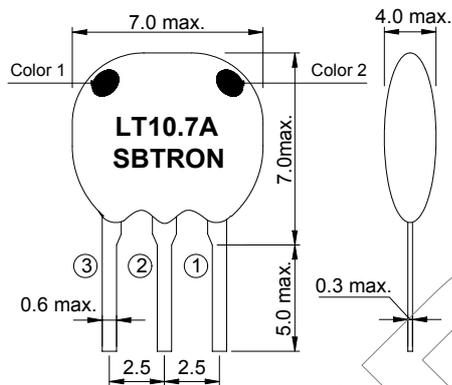
APPLICATIONS

- ▶ FM receiver
- ▶ Home appliance
- ▶ Communications

TECHNICAL CHARACTERISTICS

Part no.	3dB Band width (KHz)	20dB Band width (KHz)	Insertion loss (dB) max.	Spurious attenuation (9~12MHz)(dB) min.
S-LT10.7MA5	280 ± 50	650	6	30
S-LT10.7MS2	230 ± 50	600	6	40
S-LT10.7MS3	180 ± 40	520	7	40
S-LT10.7MJ	150 ± 40	400	10	38

DIMENSIONS

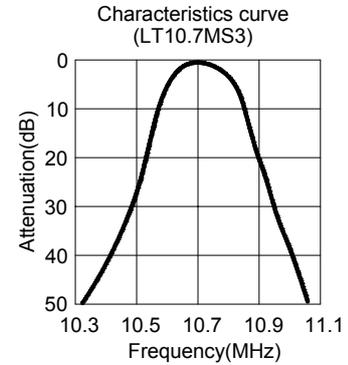
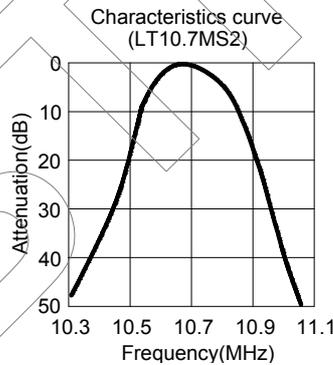
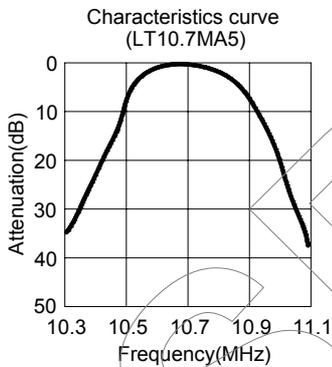


- 1 : Input
2 : Ground
3 : Output

Color 1 : A5, S2, JA10
Color 2 : S3, HY, J

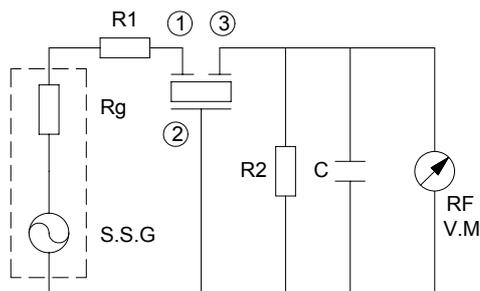
Input / Output impedance : 330Ω

Color	Center frequency
Black	D : 10.640MHz ± 30KHz
Blue	B : 10.670MHz ± 30KHz
Red	A : 10.700MHz ± 30KHz
Orange	C : 10.730MHz ± 30KHz
White	C : 10.760MHz ± 30KHz



Specifications subjects to change without notice & If you need other specifications, Contact our factory.

TEST CIRCUIT



$R_g + R_1 = R_2 = 330\Omega$
 $C = 10\text{pF}$
 (Including stray capacitance and input capacitance of RF voltmeter)

FILTER

S-LT10.7M-A10

LEADED TYPE

Low loss



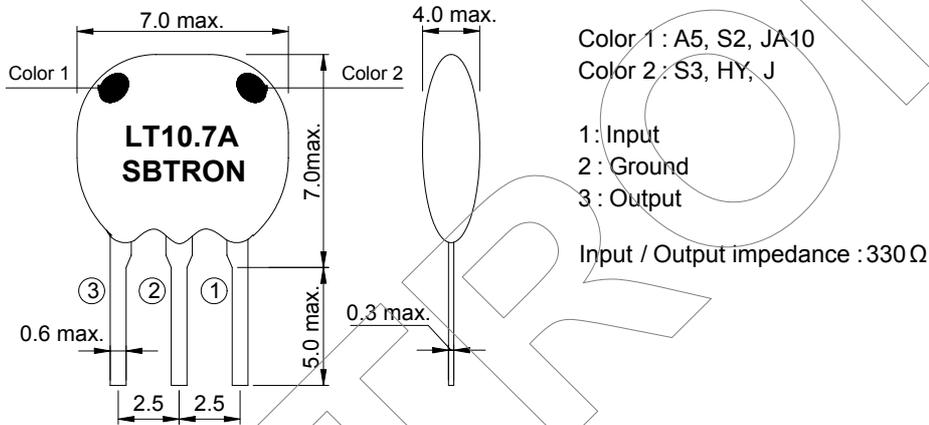
APPLICATIONS

- ▶ FM receiver
- ▶ Home appliance
- ▶ Communications

TECHNICAL CHARACTERISTICS

Part no.	3dB Band width (KHz)	20dB Band width (KHz)	Insertion loss (dB) max.	Spurious attenuation (9~12MHz)(dB) min.
S-LT10.7MA5A10	280 ± 50	590	2.5 ± 2.0	30
S-LT10.7MS2A10	230 ± 50	520	3.0 ± 2.0	35
S-LT10.7MS3A10	180 ± 40	470	3.5 ± 1.5	35
S-LT10.7MJA10	150 ± 40	360	4.5 ± 2.0	35

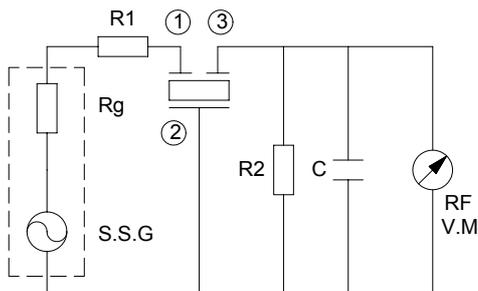
DIMENSIONS



Color	Center frequency
Black	D : 10.640MHz ± 30KHz
Blue	B : 10.670MHz ± 30KHz
Red	A : 10.700MHz ± 30KHz
Orange	C : 10.730MHz ± 30KHz
White	C : 10.760MHz ± 30KHz

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TEST CIRCUIT



$R_g + R_1 = R_2 = 330\Omega$
 $C = 10\text{pF}$
 (Including stray capacitance and input capacitance of RF voltmeter)

FILTER

S-LT10.7M-W

LEADED TYPE
Wide/Narrow band



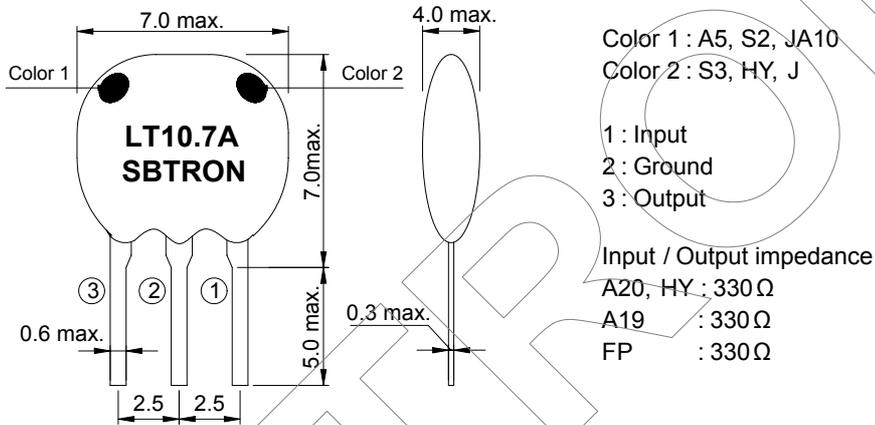
APPLICATIONS

- ▶ FM receiver
- ▶ Home appliance
- ▶ Communications

TECHNICAL CHARACTERISTICS

Part no.	3dB Band width (KHz)	20dB Band width (KHz)	Insertion loss (dB) max.	Spurious attenuation (9~12MHz)(dB) min.
S-LT10.7MA19	350 min.	950	3 ± 2.0	20
S-LT10.7MA20	330 ± 50	680	4 ± 2.0	30
S-LT10.7MHY	110 ± 30	350	7 ± 2.0	30
S-LT10.7MFP	20 min.	95	6.0 max.	24

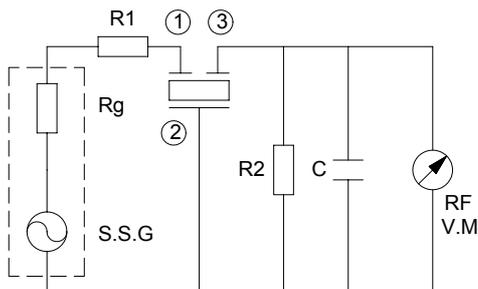
DIMENSIONS



Color	Center frequency
Black	D : 10.640MHz ± 30KHz
Blue	B : 10.670MHz ± 30KHz
Red	A : 10.700MHz ± 30KHz
Orange	C : 10.730MHz ± 30KHz
White	G : 10.760MHz ± 30KHz

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TEST CIRCUIT

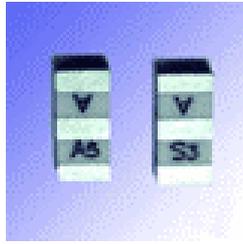


$R_g + R_1 = R_2 = 330\Omega$
 $C = 10\text{pF}$
 (Including stray capacitance and input capacitance of RF voltmeter)

FILTER

S-LTCA/CV10.7M

SMD TYPE



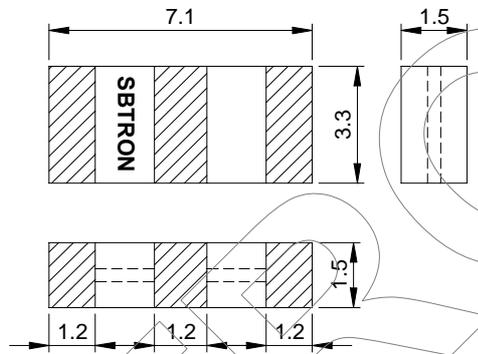
APPLICATIONS

- ▶ FM receiver
- ▶ Home appliance
- ▶ Communications

TECHNICAL CHARACTERISTICS

Part no.	3dB Band width (KHz)	20dB Band width (KHz)	Insertion loss (dB) max.	Spurious attenuation (9~12MHz) (dB) min.
S-LTCA10.7MA5	280 ± 50	650	6.0	30
S-LTCA10.7MS2	230 ± 50	600	6.0	30
S-LTCV10.7MA5	280 ± 50	590	3.0 ± 2.0	35
S-LTCV10.7MS2	230 ± 50	510	3.5 ± 2.0	35
S-LTCV10.7MS3	230 ± 50	470	4.0 ± 2.0	35

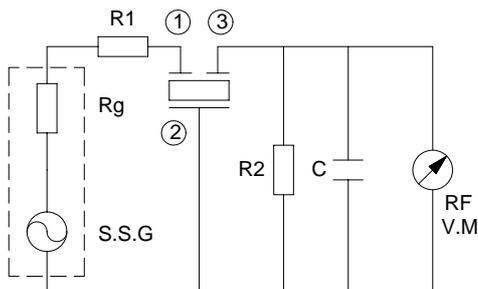
DIMENSIONS



Input / Output impedance : 330Ω

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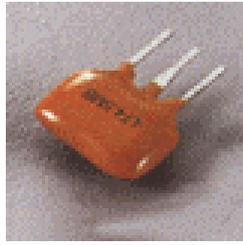
TEST CIRCUIT



$R_g + R_1 = R_2 = 330\Omega$
 $C = 10\text{pF}$
 (Including stray capacitance and input capacitance of RF voltmeter)

FILTER S-LT-MB

LEADED TYPE
TV/VCR Stage



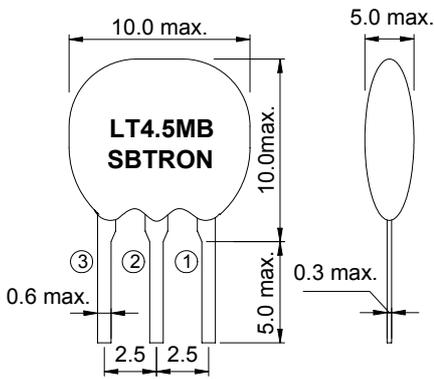
APPLICATIONS

- ▶ TV/VCR stage
- ▶ Home appliance
- ▶ Communications

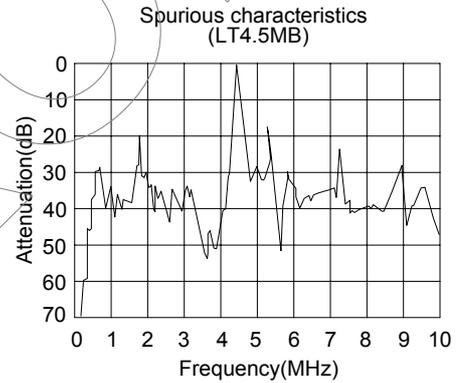
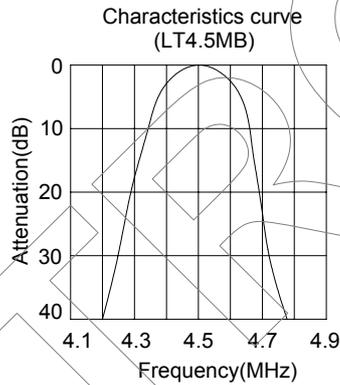
TECHNICAL CHARACTERISTICS

Part no.	Center Freq.(MHz)	3dB Band width (KHz)	20dB Band width (KHz)	Insertion loss (dB) max.	Spurious attenuation (dB) min.	Input / Output impedance(Ω)
S-LT4.5MB	4.5	4.5MHz \pm 60	530	6.0	20(4.5-1.0/+0.8MHz)	1000
S-LT5.5MB	5.5	5.5MHz \pm 75	550	6.0	25(5.5 \pm 1MHz)	600
S-LT6.0MB	6.0	6.0MHz \pm 80	600	6.0	25(6.0 \pm 1MHz)	470
S-LT6.5MB	6.5	6.5MHz \pm 80	630	6.0	25(6.5 + 1MHz) 30(6.5 - 1MHz)	470

DIMENSIONS

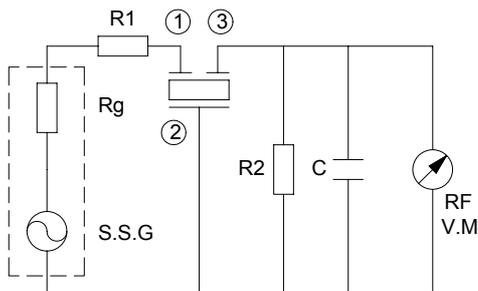


- 1: Input
2: Ground
3: Output



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TEST CIRCUIT

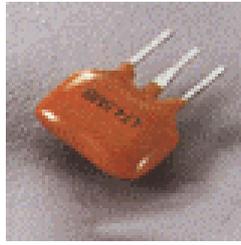


$R_g + R_1 = R_2 =$ Input/Output impedance
 $C = 10\text{pF}$
 (Including stray capacitance and input capacitance of RF voltmeter)

FILTER S-LTS

LEADED TYPE

TV/VCR Stage / Low spurious



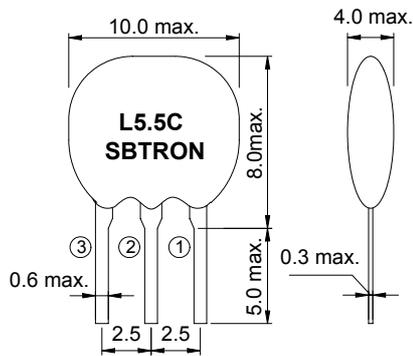
APPLICATIONS

- ▶ TV/VCR stage
- ▶ Home appliance
- ▶ Communications

TECHNICAL CHARACTERISTICS

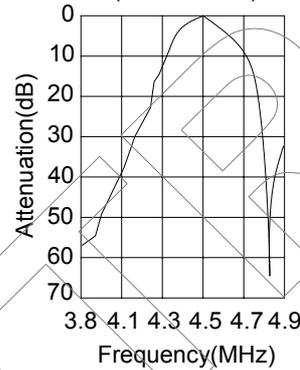
Part no.	Center Freq.(MHz)	3dB Band width (KHz)	20dB Band width (KHz)	Insertion loss (dB) max.	Spurious attenuation (dB) min.	Input / Output impedance(Ω)
S-LTS4.5MCB	4.500	4.5MHz ± 60	600	6.0	30(0 ~ 4.5MHz)	1000
S-LTS4.5MDB	4.500	4.5MHz ± 70	750	6.0	30(0 ~ 4.5MHz)	1000
S-LTS5.5MCB	5.500	5.5MHz ± 60	600	6.0	30(0 ~ 5.5MHz)	600
S-LTS5.5MDB	5.500	5.5MHz ± 80	750	6.0	30(0 ~ 5.5MHz)	600
S-LTS6.0MCB	6.000	6.0MHz ± 60	600	6.0	30(0 ~ 6.0MHz)	470
S-LTS6.0MDB	6.000	6.0MHz ± 80	750	6.0	30(0 ~ 6.0MHz)	470
S-LTS6.5MCB	6.500	6.5MHz ± 70	650	6.0	30(0 ~ 6.5MHz)	470
S-LTS6.5MDB	6.500	6.5MHz ± 80	800	6.0	30(0 ~ 6.5MHz)	470

DIMENSIONS

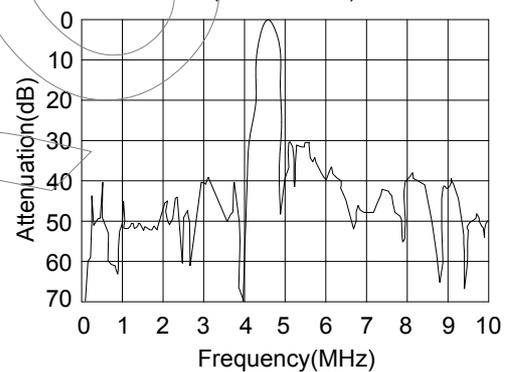


- 1: Input
2: Ground
3: Output

Characteristics curve (LTS4.5MCB)

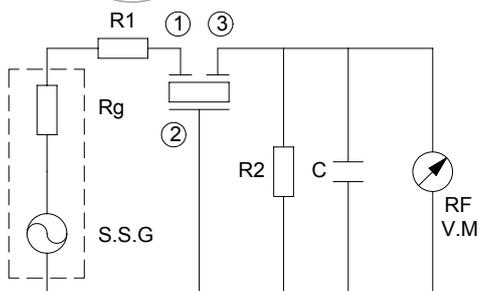


Spurious characteristics (LTS4.5MCB)



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TEST CIRCUIT



$R_g + R_1 = R_2 = \text{Input/Output impedance}$
 $C = 10\text{pF}$
 (Including stray capacitance and input capacitance of RF voltmeter)

FILTER S-LTT

LEADED TYPE

TV/VCR Stage / High selectivity



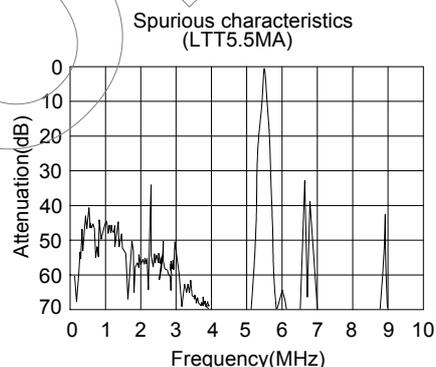
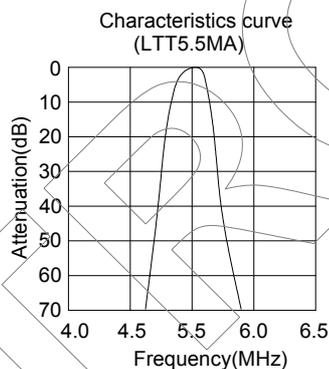
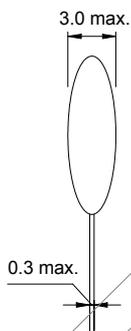
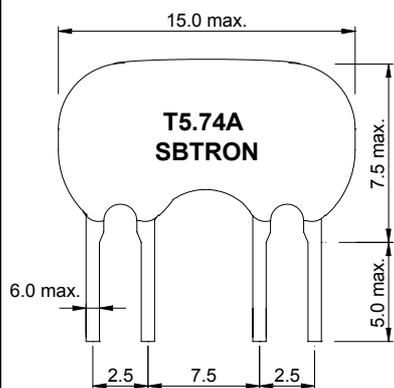
APPLICATIONS

- ▶ TV/VCR stage
- ▶ Home appliance
- ▶ Communications

TECHNICAL CHARACTERISTICS

Part no.	Center Freq.(MHz)	3dB Band width (KHz)	20dB Band width (KHz)	Insertion loss (dB) max.	Spurious attenuation (dB) min.	Input / Output impedance(Ω)
S-LTT4.5MA	4.500	$F_n \pm 40$	370	10.0	40(4.5-1.0/+0.8MHz)	1000
S-LTT4.72MA	4.724	$F_n \pm 40$	370	10.0	40(4.72-1.0/+0.8MHz)	1000
S-LTT5.5MA	5.500	$F_n \pm 50$	350	9.0	50(5.5 \pm 1MHz)	600
S-LTT5.74MA	5.742	$F_n \pm 50$	350	9.0	50(5.74 \pm 1MHz)	600
S-LTS6.0MA	6.000	$F_n \pm 50$	400	9.0	50(6.0 \pm 1MHz)	470
S-LTS6.25MA	6.250	$F_n \pm 50$	400	9.0	50(6.25 \pm 1MHz)	470
S-LTS6.5MA	6.500	$F_n \pm 50$	400	9.0	50(6.5 \pm 1MHz)	470
S-LTS6.74MA	6.742	$F_n \pm 50$	400	9.0	50(6.74 \pm 1MHz)	470

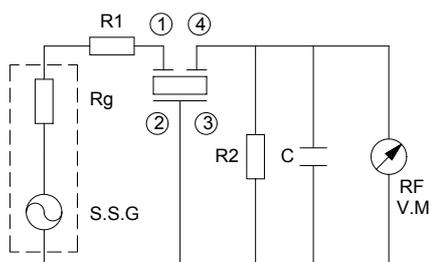
DIMENSIONS



- 1 : Input
2,3 : Ground
4 : Output

Specifications subjects to change without notice & If you need other specifications, Contact our factory.

TEST CIRCUIT

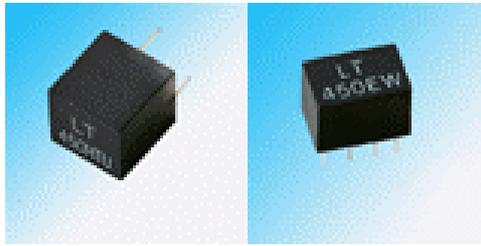


$R_g + R_1 = R_2 = \text{Input/Output impedance}$
 $C = 10\text{pF}$
 (Including stray capacitance and input capacitance of RF voltmeter)

FILTER

S-LT455_U / 450_U
S-LT455_W/450_W

455 / 450KHz



APPLICATIONS

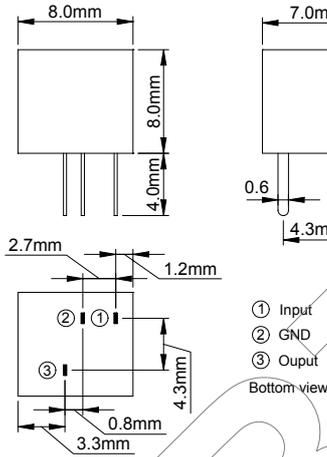
- ▶ Communications
- ▶ Micro processor
- ▶ Home appliance

TECHNICAL CHARACTERISTICS

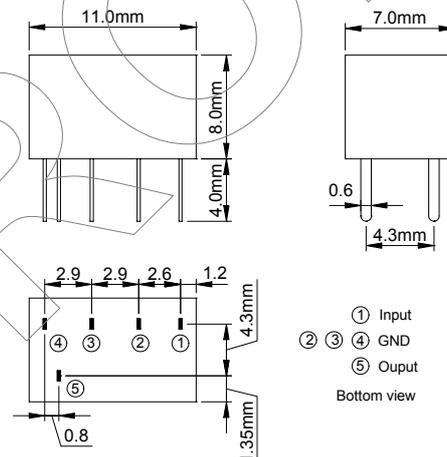
Part no.		Center frequency (KHz)	Insertion loss (dB) max.	Pass band ripple (dB) max.	6dB Band width (KHz) min.	40dB Band width (KHz) min	50dB Band width (KHz) min.	Stop band attenuation Fo± 100KHz (dB) min.		Input Output Impedance (Ω)
								S-LTM455_U	S-LTM455_W	
S-LT455BU	S-LT455BW	455±2.0	4	2	±15	±30	±30	28	40	1500
S-LT455CU	S-LT455CW	455±2.0	4	2	±12.5	±24	±24	28	40	1500
S-LT455DU	S-LT455DW	455±1.5	4	2	±10	±20	±20	28	40	1500
S-LT455EU	S-LT455EW	455±1.5	6	2	±7.5	±15	±15	28	40	1500
S-LT455FU	S-LT455FW	455±1.5	6	2	±6	±12.5	±12.5	28	40	2000
S-LT455GU	S-LT455GW	455±1.5	6	2	±4.5	±10	±10	28	40	2000
S-LT455HU	S-LT455HW	455±1.0	6	2	±3	±9	±9	28	40	2000
S-LT455IU	S-LT455IW	455±1.0	6	2	±2	±7.5	±7.5	28	40	2000
S-LT455HTU	S-LT455HTW	455±1.0	6	2	±3	±9	±9	35	60	2000

DIMENSIONS

< S-LT455_U >

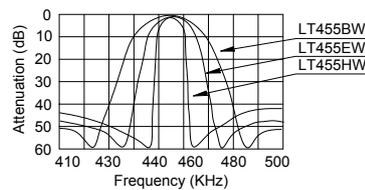
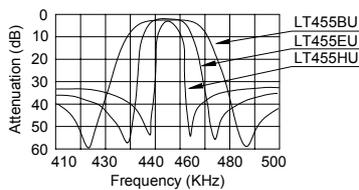
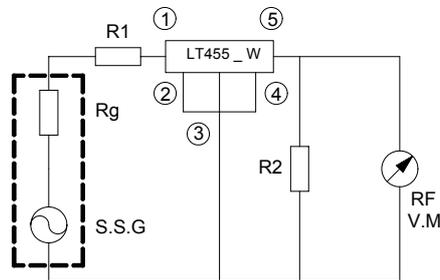
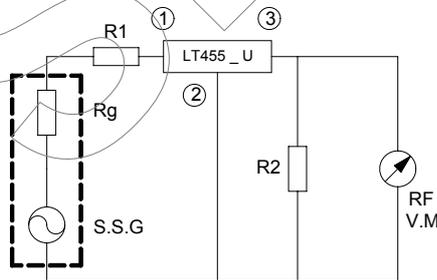


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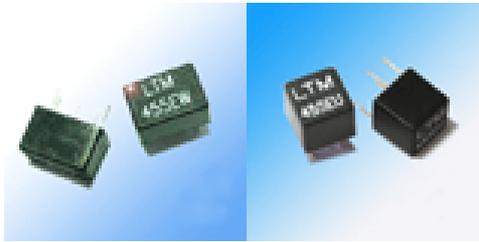
TEST CIRCUIT AND CHARACTERISTICS CURVE



FILTER

S-LTM455_U / 450_U
S-LTM455_W/450_W

455 / 450KHz



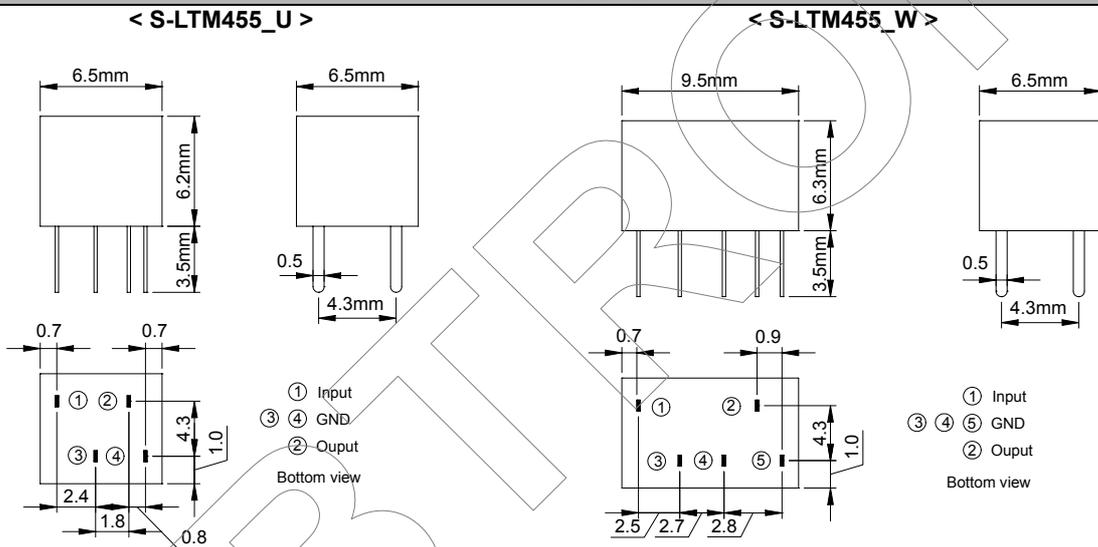
APPLICATIONS

- ▶ Communications
- ▶ Micro processor
- ▶ Home appliance

TECHNICAL CHARACTERISTICS

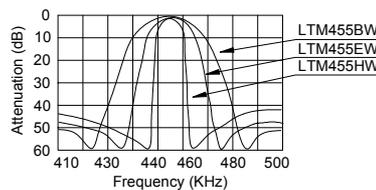
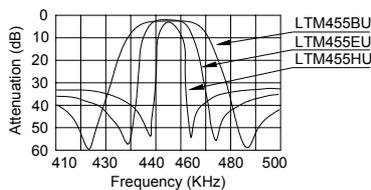
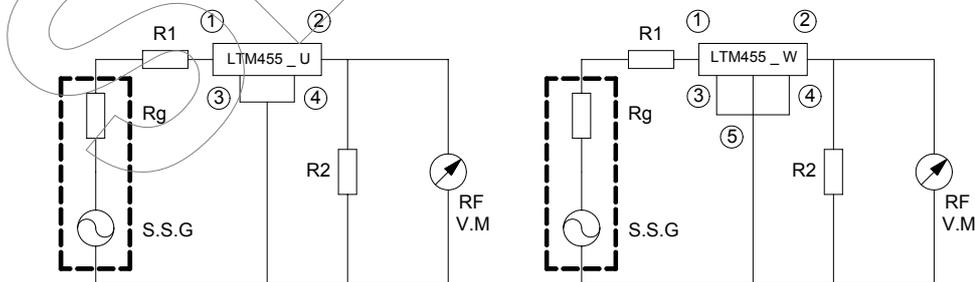
Part no.		Center frequency (KHz)	Insertion loss (dB) max.	Pass band ripple (dB) max.	6dB Band width (KHz) min.	40dB Band width (KHz) min	50dB Band width (KHz) min.	Stop band attenuation Fo± 100KHz (dB) min.		Input Output Impedance (Ω)
								S-LTM455_U	S-LTM455_W	
S-LTM455BU	S-LTM455BW	455±2.0	4	2	±15	±30	±30	28	40	1500
S-LTM455CU	S-LTM455CW	455±2.0	4	2	±12.5	±24	±24	28	40	1500
S-LTM455DU	S-LTM455DW	455±1.5	4	2	±10	±20	±20	28	40	1500
S-LTM455EU	S-LTM455EW	455±1.5	6	2	±7.5	±15	±15	28	40	1500
S-LTM455FU	S-LTM455FW	455±1.5	6	2	±6	±12.5	±12.5	28	40	2000
S-LTM455GU	S-LTM455GW	455±1.5	6	2	±4.5	±10	±10	28	40	2000
S-LTM455HU	S-LTM455HW	455±1.0	6	2	±3	±9	±9	28	40	2000
S-LTM455IU	S-LTM455IW	455±1.0	6	2	±2	±7.5	±7.5	28	40	2000
S-LTM455HTU	S-LTM455HTW	455±1.0	6	2	±3	±9	±9	35	60	2000

DIMENSIONS



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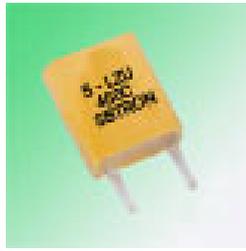
TEST CIRCUIT AND CHARACTERISTICS CURVE



FILTER

S-LZU450

LEADED TYPE
IF signal detection



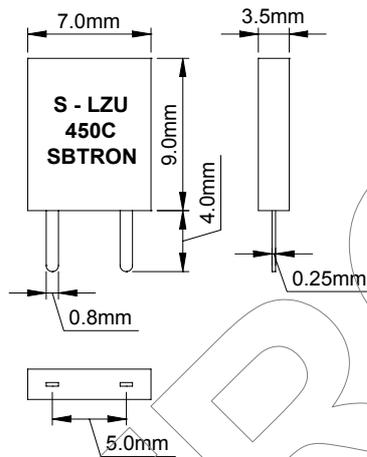
APPLICATIONS

- ▶ IF signal detection
- ▶ FM receiver
- ▶ Communications

TECHNICAL CHARACTERISTICS

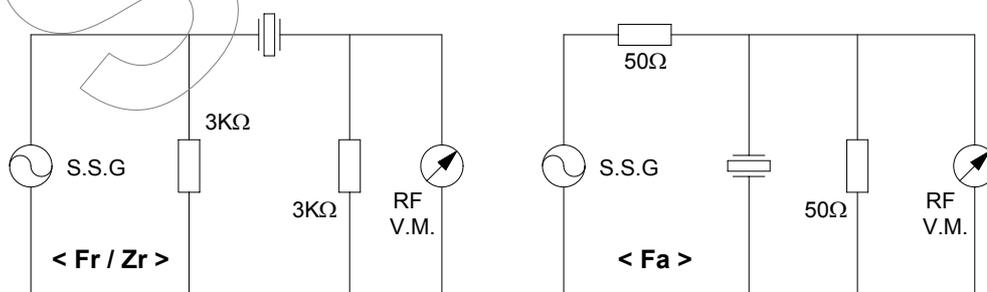
Part no.	Resonant frequency (KHz)	Resonant resistance (Ω) max.	Band width (fa-fr) (KHz)	Application
S-LZU450C	450 ± 1	20	14 ± 2	IF signal detection
S-LZU450C4N	450 ± 0.8	30	9 ± 2	IF signal detection

DIMENSIONS



Specifications subjects to change without notice & If you need other specifications, Contact our factory.

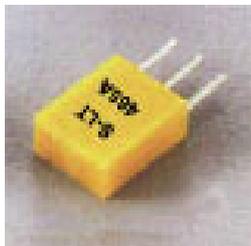
TEST CIRCUIT



FILTER S-LT465A

LEADED TYPE

Radio cassette recorder



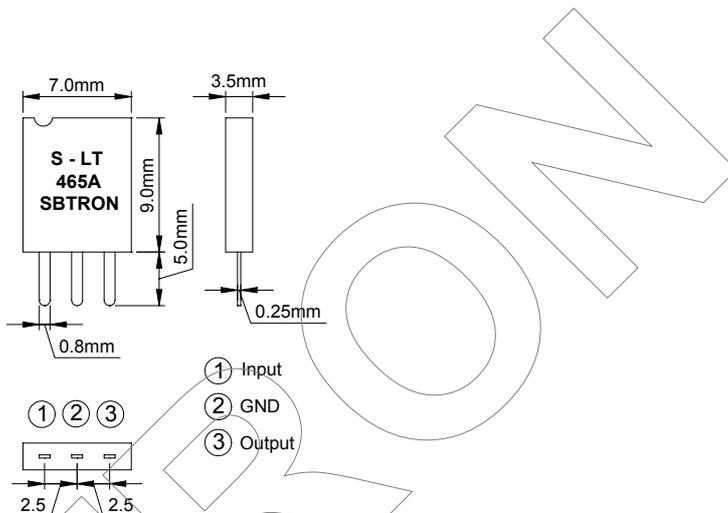
APPLICATIONS

- ▶ Radio cassette recorder
- ▶ Home appliance
- ▶ Communications

TECHNICAL CHARACTERISTICS

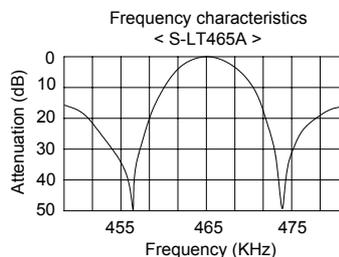
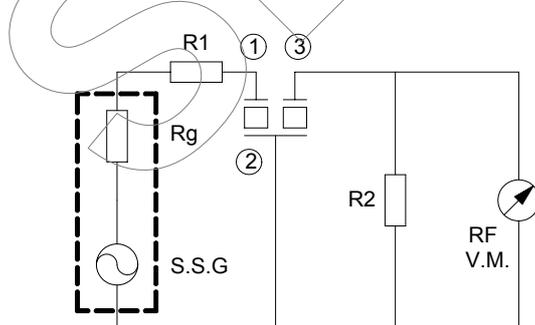
Part no.	Insertion loss (dB)	6dB Band width (KHz)	Stop band Attenuation (dB) (fo ± 100KHz)	± 9KHz (dB) Selectivity ± 9KHz off	Ripple (dB)	Input / Output Impedance (KΩ)
S-LT465A	≤ 3	≥ 8	≥ 12	≥ 11	≤ 1	2

DIMENSIONS



Specifications subjects to change without notice & If you need other specifications, Contact our factory.

TEST CIRCUIT



FILTER

S-LT

Miniature type

450 ~ 470KHz

PICTURE
AREA

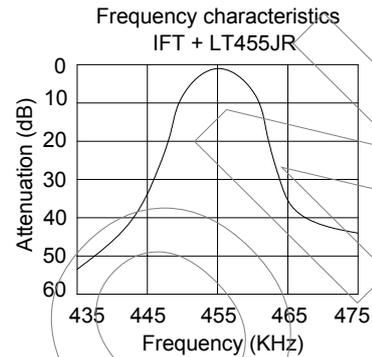
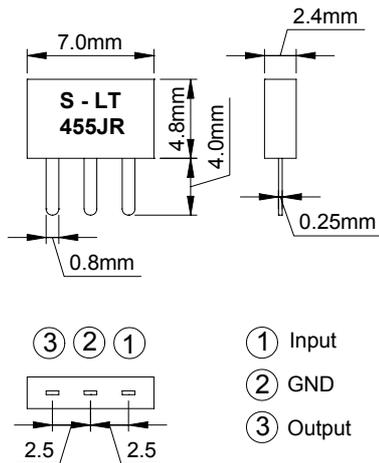
APPLICATIONS

- ▶ Miniature
- ▶ RF applications
- ▶ Communications

TECHNICAL CHARACTERISTICS

Part no.	3dB Band width (KHz)	Selectivity (dB)	Insertion loss (dB) max.	Composition
		±9 KHz off		
S-LT455JR	5.5 ± 1.5	≥17	≤6	2 elements

DIMENSIONS AND CHARACTERISTICS



Recommended IFT (7mm and 5 mm square)

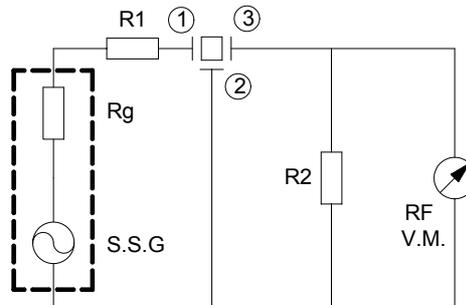
Item	Type	7 x 7mm			5 x 5mm		
		①~②	②~③	④~⑥	①~②	②~③	④~⑥
Winding specification		85 T	67 T	23 T	84 T	98 T	33 T
Unloaded Q		90					
Tuning capacity		180 pF					

Center frequency is available in a range of 450~470KHz.

The nominal frequency tolerance is ±2KHz.

Specifications subjects to change without notice & If you need other specifications, Contact our factory.

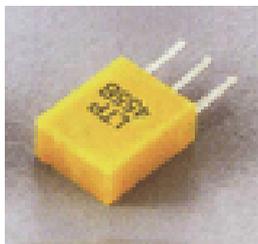
TEST CIRCUIT



$$R_g + R_1 = R_2 = 3K\Omega$$

FILTER S-LTP

450 ~ 470KHz



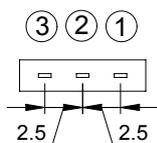
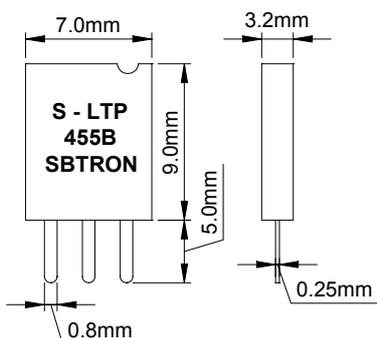
APPLICATIONS

- ▶ For AM
- ▶ RF applications
- ▶ Communications

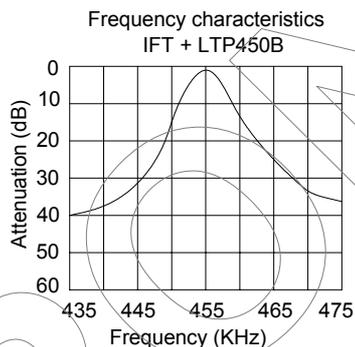
TECHNICAL CHARACTERISTICS

Part no.	3dB Band width (KHz)	Selectivity (dB)min.		Insertion loss (dB) max.	Composition	Lead length (mm)	
		-9 KHz off	+9KHz off			L1	L2
S-LTP455A	9.5 ± 3	5.0	3.0	5.0	One element	3.6	5.0
S-LTP455B	9.5 ± 3	5.0	3.0	5.0	One element with IFT		
S-LTP450BY	7 ± 2	6.0	5.0	5.0			
S-LTP450BY1	4.5 ± 1.5	9.0	8.0	5.0			

DIMENSIONS AND CHARACTERISTICS



- ① Input
- ② GND
- ③ Output



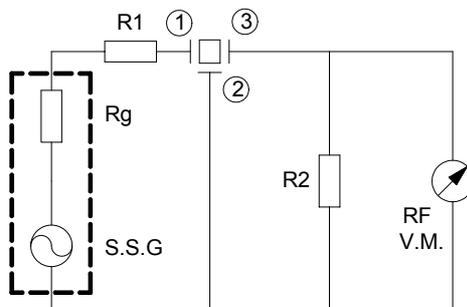
Recommended IFT (7mm square)

Item	Type	S-LTP455B		
Winding specification		①~②	②~③	④~⑥
		70 T	115 T	7 T
Unloaded Q		105		
Tuning capacity		180pF		

Center frequency is available in a range of 450~470KHz.
The nominal frequency tolerance is ±2KHz.

Specifications subjects to change without notice & If you need other specifications, Contact our factory.

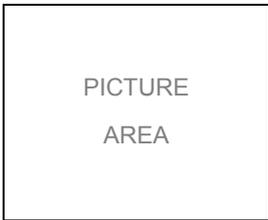
TEST CIRCUIT



$$R_g + R_1 = R_2 = 3K\Omega$$

FILTER S-LTZ

450 ~ 470KHz



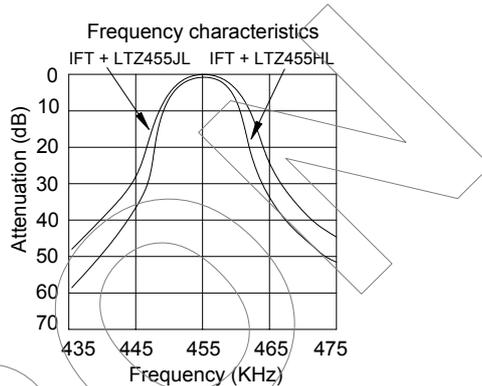
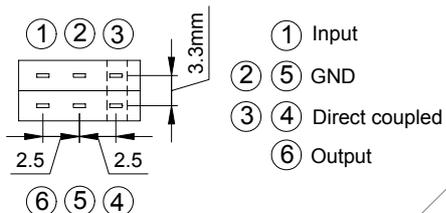
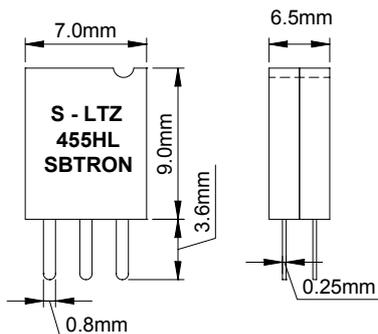
APPLICATIONS

- ▶ For AM
- ▶ RF applications
- ▶ Communications

TECHNICAL CHARACTERISTICS

Part no.	3dB Band width (KHz)	Selectivity (dB)	Insertion loss (dB)	Composition
		±9 KHz off		
S-LTZ455HL	4.0 ± 1	23	7	2 elements Direct coupling type
S-LTZ455JL	5.5 ± 1	18	7	

DIMENSIONS AND CHARACTERISTICS



Recommended IFT (7mm square)

Item	Type	S-LTZ455HL / JL		
		①~②	②~③	④~⑥
Winding specification	<p>< Bottom view ></p>	68 T	84 T	14 T
Unloaded Q				
Tuning capacity	180pF			

Center frequency is available in a range of 450~470KHz.
The nominal frequency tolerance is ±2KHz.

Specifications subjects to change without notice & If you need other specifications, Contact our factory.

TEST CIRCUIT

