

Application

Mobile Communication Systems

DIL 24 Metal Package,
Hermetically Sealed

Characteristics

Ambient

Temperature $T_A = 23\text{ }^\circ\text{C}$

Input Power Level = 0 dBm

Source Impedance = $455\ \Omega // - 22\ \text{pF}$

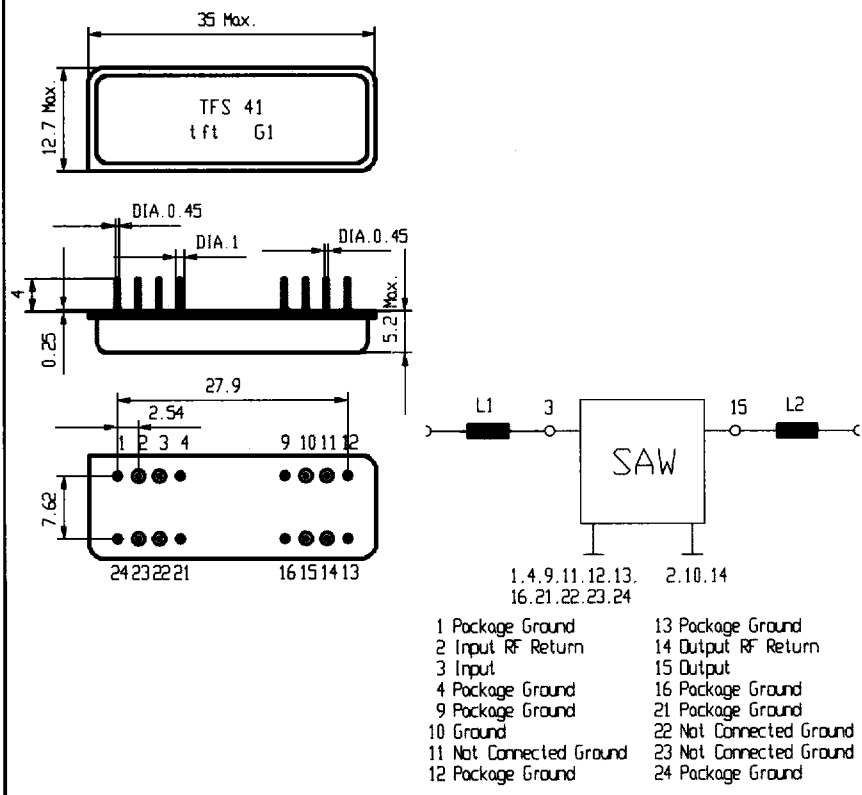
Load Impedance = $240\ \Omega // - 28\ \text{pF}$

Part Number

TFS 41

Specifications		Typ. value	Variation /Limitation	
Reference Frequency	f_c	41.69 MHz	$\pm 15\ \text{kHz}$	
Insertion Loss (Reference Level)	a_e	15.2 dB	max	16.5 dB
Pass Band (1 dB-BW)		300 kHz	$f_c \pm 135\ \text{kHz}$	
Relative Attenuation	a_{rel}		max	1 dB
$f_c - 135\ \text{kHz} \dots f_c + 135\ \text{kHz}$		-	min	40 dB
$f_c \pm 410\ \text{kHz} \dots f_c \pm 10\ \text{MHz}$		50 dB		
Group Delay	GD			
Absolute Delay	$f_c - 135\ \text{kHz} \dots f_c + 135\ \text{kHz}$	4.5 μs		-
Group Delay Ripple	$f_c - 135\ \text{kHz} \dots f_c + 135\ \text{kHz}$	350 ns	max	600 ns
Operating Temperature Range			$- 10\text{ }^\circ\text{C} \dots + 70\text{ }^\circ\text{C}$	
Temperature Coefficient	TC	$- 0.045\ \text{ppm/K}^2$		-
Frequency Inversion Temperature		$+ 25\text{ }^\circ\text{C}$		-
DC - voltage	V_{dc}	-	max	12 V
AC - voltage	V_{ac}	-	max	10 V

Package, Pin Connection and 50 Ω Matching Network



Dimensions in millimeters

